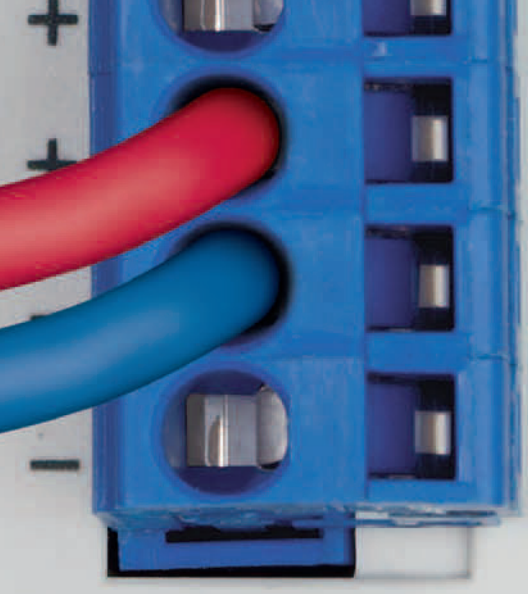


ADJ.

23-28.5V

INTERFACE

24V
(200mA)

GND

Rx

Tx

Alarm

Charge/
Bat. Mode

DC OK

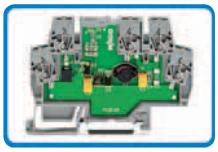
Input
(200mA)

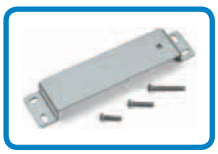
Alarm

Bat. Mode

Bat. Charge

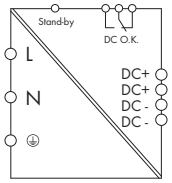
5





Switched-Mode Power Supply, 1-Phase

***EPSITRON*® PRO Power**



- Primary switch mode power supply unit with PowerBoost and TopBoost
- Stand-by input for switching off the output and minimizing power consumption
- DC OK contact for output monitoring
- Parallel operation, series connection possible
- Prepared for class I equipment
- Natural convection cooling when horizontally mounted
- Enclosed for use in switchgear cabinets
- Electrically isolated output voltage (SELV) acc. to EN 60950-1/UL 60950

Description	Item No.	Pack. Unit
Switched-Mode Power Supply, 12 V DC / 6 A	**787-819**	1

Technical Data

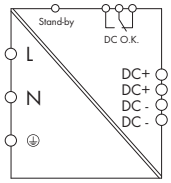
Input:	
Nominal input voltage Vi nom	110 ... 240 VAC
Input voltage range	85 ... 264 VAC; 120 ... 350 VDC
Input voltage derating	-5 % / V AC < 95 VAC
Frequency	50 Hz ... 60 Hz
Input current Ii	0.51 A at 230 VAC and 6 ADC
Discharge current	1 mA typ.
Inrush current	< 30 A (peak)
Mains failure hold-up time	70 ms typ. at 230 VAC
Output:	
Nominal output voltage Vo nom	12 VDC (SELV)
Output voltage range	11 ... 18 VDC adjustable
Output current Io	6 A at 12 V DC
PowerBoost	12 ADC (for 4 s); 9 ADC (for 8 s)
TopBoost	21 ADC (for 25 ms)
Factory preset	12 VDC
Adjustment accuracy	1%
Residual ripple	< 70 mV (peak-to-peak)
Current limitation	1.1 x Io typ.
Overload behavior	TopBoost / PowerBoost /Constant current
Operational indication	LED green (DC O.K.), LED red (error)
Signaling	Relay contact DC O.K. (changeover contact)
Efficiency / power losses:	
Efficiency	83 % typ.
Power loss P_V	0.5 W (stand-by) / 3.0 W (no load) / 9.4 W (rated load)
Fuse protection:	
Internal fuse	T 2 A / 250 V
External fuse	Circuit breakers 6 A, 10 A, 16 A, characteristic: B or C An external DC fuse is required for the DC input voltage

Technical Data

Environmental requirements:	
Ambient operating temperature	-25 °C ... +70 °C
Storage temperature	-25 °C ... +85 °C
Rel. humidity	30 % ... 85 % (no condensation)
Derating	-3 % / K (> +50 °C)
Degree of pollution	2 (acc. to EN 50178)
Climatic category	3K3 (acc. to EN 60721)
Safety and protection:	
Test voltage pri.-sec./ pri.-gr. / sec.-gr.	4.2 kV DC / 2.2 kV DC / 0.7 kV DC
Protection class	Prepared for class I equipment
Degree of protection	IP20 (acc. to EN 60529)
Overvoltage protection	via varistor at primary circuit
Short circuit protection	yes
No-load proof	yes
Feedback voltage	max. 25 VDC
Parallel operation	yes
Series connection	yes
Connection and type of mounting:	
Wire connection	Input/Output: WAGO 231 Series Signalising: WAGO 733 Series
Cross sections	Input/Output: 0.08 mm² ... 2.5 mm² / AWG 28 ... 12 Signalising: 0.08 mm² ... 0.5 mm² / AWG 28 ... 20
Strip lengths	Input/Output: 8 ... 9 mm / 0.33 in Signalising: 5 ... 6 mm / 0.22 in
Type of mounting	DIN-rail mounting (EN 60715) in 2 positions
Dimensions and weight:	
Dimensions (mm) W x H x L	40 x 163 x 163 (incl. female connector) Length from upper-edge of DIN 35 rail
Weight	800 g
Standards and approvals:	
Standards/Specifications	EN 60950, EN 61204-3, UL 60950, UL 508

Switched-Mode Power Supply, 1-Phase

***EPSITRON*® PRO Power**



- Primary switch mode power supply unit with PowerBoost and TopBoost
- Stand-by input for switching off the output and minimizing power consumption
- DC OK contact for output monitoring
- Parallel operation, series connection possible
- Prepared for class I equipment
- Natural convection cooling when horizontally mounted
- Enclosed for use in switchgear cabinets
- Electrically isolated output voltage (SELV) acc. to EN 60950-1/UL 60950

Description	Item No.	Pack. Unit
Switched-Mode Power Supply, 12 V DC / 10 A	**787-821**	1

Technical Data

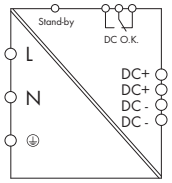
Input:	
Nominal input voltage Vi nom	110 ... 240 VAC
Input voltage range	85 ... 264 VAC; 120 ... 350 VDC
Input voltage derating	-5 % / V AC < 95 VAC
Frequency	50 Hz ... 60 Hz
Input current Ii	0.97 A at 230 VAC and 10 ADC
Discharge current	1 mA typ.
Inrush current	< 30 A (peak)
Mains failure hold-up time	35 ms typ. at 230 VAC
Output:	
Nominal output voltage Vo nom	12 VDC (SELV)
Output voltage range	11 ... 18 VDC adjustable
Output current Io	10 A at 12 V DC
PowerBoost	20 ADC (for 4 s); 15 ADC (for 8 s)
TopBoost	60 ADC (for 25 ms); 40 ADC at V_{IN} < 110 VAC (for 25 ms)
Factory preset	12 VDC
Adjustment accuracy	1%
Residual ripple	< 70 mV (peak-to-peak)
Current limitation	1.1 x Io typ.
Overload behavior	TopBoost / PowerBoost /Constant current
Operational indication	LED green (DC O.K.), LED red (error)
Signaling	Relay contact DC O.K. (changeover contact)
Efficiency / power losses:	
Efficiency	87.8 % typ.
Power loss P_V	0.5 W (stand-by) / 5.0 W (no load) / 14.6 W (rated load)
Fuse protection:	
Internal fuse	T 4 A / 250 V
External fuse	Circuit breakers 6 A, 10 A, 16 A, characteristic: B or C An external DC fuse is required for the DC input voltage

Technical Data

Environmental requirements:	
Ambient operating temperature	-25 °C ... +70 °C
Storage temperature	-25 °C ... +85 °C
Rel. humidity	30 % ... 85 % (no condensation)
Derating	-3 % / K (> +50 °C)
Degree of pollution	2 (acc. to EN 50178)
Climatic category	3K3 (acc. to EN 60721)
Safety and protection:	
Test voltage pri.-sec./ pri.-gr. / sec.-gr.	4.2 kV DC / 2.2 kV DC / 0.7 kV DC
Protection class	Prepared for class I equipment
Degree of protection	IP20 (acc. to EN 60529)
Overvoltage protection	via varistor at primary circuit
Short circuit protection	yes
No-load proof	yes
Feedback voltage	max. 25 VDC
Parallel operation	yes
Series connection	yes
Connection and type of mounting:	
Wire connection	Input/Output: WAGO 231 Series Signalising: WAGO 733 Series
Cross sections	Input/Output: 0.08 mm² ... 2.5 mm² / AWG 28 ... 12 Signalising: 0.08 mm² ... 0.5 mm² / AWG 28 ... 20
Strip lengths	Input/Output: 8 ... 9 mm / 0.33 in Signalising: 5 ... 6 mm / 0.22 in
Type of mounting	DIN-rail mounting (EN 60715) in 2 positions
Dimensions and weight:	
Dimensions (mm) W x H x L	57 x 163 x 163 (incl. female connector) Length from upper-edge of DIN 35 rail
Weight	1295 g
Standards and approvals:	
Standards/Specifications	EN 60950, EN 61204-3, UL 60950, UL 508

Switched-Mode Power Supply, 1-Phase

***EPSITRON*® PRO Power**



- Primary switch mode power supply unit with PowerBoost and TopBoost
- Stand-by input for switching off the output and minimizing power consumption
- DC OK contact for output monitoring
- Parallel operation, series connection possible
- Prepared for class I equipment
- Natural convection cooling when horizontally mounted
- Enclosed for use in switchgear cabinets
- Electrically isolated output voltage (SELV) acc. to EN 60950-1/UL 60950

Description	Item No.	Pack. Unit
Switched-Mode Power Supply, 12 V DC / 15 A	**787-831**	1

Technical Data

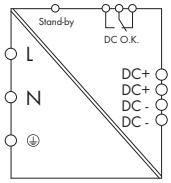
Input:	
Nominal input voltage Vi nom	110 ... 240 VAC
Input voltage range	85 ... 264 VAC; 120 ... 350 VDC
Input voltage derating	-1.5 % / V AC < 110 VAC
Frequency	50 Hz ... 60 Hz
Input current Ii	0.9 A at 230 VAC and 15 ADC
Discharge current	1 mA typ.
Inrush current	< 8 A (active inrush current limitation)
Mains failure hold-up time	30 ms typ. at 230 VAC
Output:	
Nominal output voltage Vo nom	12 VDC (SELV)
Output voltage range	11 ... 18 VDC adjustable
Output current Io	15 A at 12 VDC
PowerBoost	30 ADC (for 4 s); 22.5 ADC (for 8 s)
TopBoost	55 ADC (for 25 ms)
Factory preset	12 VDC
Adjustment accuracy	1%
Residual ripple	< 70 mV (peak-peak)
Current limitation	1.1 x Io typ.
Overload behavior	TopBoost / PowerBoost /Constant current
Operational indication	LED green (DC O.K.), LED red (error)
Signaling	Relay contact DC O.K. (changeover contact)
Efficiency / power losses:	
Efficiency	87 % typ.
Power loss P_V	0.8 W (stand-by) / 4.6 W (no load) / 23.4 W (rated load)
Fuse protection:	
Internal fuse	T 6.3 A / 250 V
External fuse	Circuit breakers 6 A, 10 A, 16 A, characteristic: B or C An external DC fuse is required for the DC input voltage

Technical Data

Environmental requirements:	
Ambient operating temperature	-25 °C ... +70 °C
Storage temperature	-25 °C ... +85 °C
Rel. humidity	30 % ... 85 % (no condensation)
Derating	-3 % / K (> +50 °C)
Degree of pollution	2 (acc. to EN 50178)
Climatic category	3K3 (acc. to EN 60721)
Safety and protection:	
Test voltage pri.-sec./ pri.-gr. / sec.-gr.	4.2 kV DC / 2.2 kV DC / 0.7 kV DC
Protection class	Prepared for class I equipment
Degree of protection	IP20 (acc. to EN 60529)
Overvoltage protection	via varistor at primary circuit
Short circuit protection	yes
No-load proof	yes
Feedback voltage	max. 25 VDC
Parallel operation	yes
Series connection	yes
Connection and type of mounting:	
Wire connection	Input/Output: WAGO 231 Series Signalising: WAGO 733 Series
Cross sections	Input/Output: 0.08 mm² ... 2.5 mm² / AWG 28 ... 12 Signalising: 0.08 mm² ... 0.5 mm² / AWG 28 ... 20
Strip lengths	Input/Output: 8 ... 9 mm / 0.33 in Signalising: 5 ... 6 mm / 0.22 in
Type of mounting	DIN-rail mounting (EN 60715) in 2 positions
Dimensions and weight:	
Dimensions (mm) W x H x L	57 x 163 x 179 (incl. female connector) Length from upper-edge of DIN 35 rail
Weight	1480 g
Standards and approvals:	
Standards/Specifications	EN 60950, EN 61204-3, UL 60950, UL 508

Switched-Mode Power Supply, 1-Phase

***EPSITRON*® PRO Power**



- Primary switch mode power supply unit with PowerBoost and TopBoost
- Stand-by input for switching off the output and minimizing power consumption
- DC OK contact for output monitoring
- Parallel operation, series connection possible
- Prepared for class I equipment
- Natural convection cooling when horizontally mounted
- Enclosed for use in switchgear cabinets
- Electrically isolated output voltage (SELV) acc. to EN 60950-1/UL 60950

Description	Item No.	Pack. Unit
Switched-Mode Power Supply, 24 V DC / 3 A	**787-818**	1

Technical Data

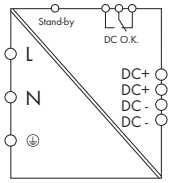
Input:	
Nominal input voltage Vi nom	100 ... 240 VAC
Input voltage range	85 ... 264 VAC; 120 ... 350 VDC
Input voltage derating	-5 % / V AC < 95 VAC
Frequency	50 Hz ... 60 Hz
Input current Ii	0.51 A at 230 VAC and 3 ADC
Discharge current	1 mA typ.
Inrush current	< 30 A (peak)
Mains failure hold-up time	70 ms typ. at 230 VAC
Output:	
Nominal output voltage Vo nom	24 VDC (SELV)
Output voltage range	22 ... 29.5 VDC adjustable
Output current Io	3 A at 24 VDC
PowerBoost	6 ADC (for 4 s); 4.5A DC(for 8 s)
TopBoost	14 A DC (for 25 ms)
Factory preset	24 VDC
Adjustment accuracy	1%
Residual ripple	< 70 mV (peak-peak)
Current limitation	1.1 x Io typ.
Overload behavior	TopBoost / PowerBoost /Constant current
Operational indication	LED green (DC O.K.), LED red (error)
Signaling	Relay contact DC O.K. (changeover contact)
Efficiency / power losses:	
Efficiency	87.8 % typ.
Power loss P_V	0.5 W (stand-by) / 3.0 W (no load) / 8.8 W (rated load)
Fuse protection:	
Internal fuse	T 2 A / 250 V
External fuse	Circuit breakers 6 A, 10 A, 16 A, characteristic: B or C An external DC fuse is required for the DC input voltage

Technical Data

Environmental requirements:	
Ambient operating temperature	-25 °C ... +70 °C
Storage temperature	-25 °C ... +85 °C
Rel. humidity	30 % ... 85 % (no condensation)
Derating	-3 % / K (> +50 °C)
Degree of pollution	2 (acc. to EN 50178)
Climatic category	3K3 (acc. to EN 60721)
Safety and protection:	
Test voltage pri.-sec./ pri.-gr. / sec.-gr.	4.2 kV DC / 2.2 kV DC / 0.7 kV DC
Protection class	Prepared for class I equipment
Degree of protection	IP20 (acc. to EN 60529)
Overvoltage protection	via varistor at primary circuit
Short circuit protection	yes
No-load proof	yes
Feedback voltage	max. 35 VDC
Parallel operation	yes
Series connection	yes
Connection and type of mounting:	
Wire connection	Input/Output: WAGO 231 Series Signalising: WAGO 733 Series
Cross sections	Input/Output: 0.08 mm² ... 2.5 mm² / AWG 28 ... 12 Signalising: 0.08 mm² ... 0.5 mm² / AWG 28 ... 20
Strip lengths	Input/Output: 8 ... 9 mm / 0.33 in Signalising: 5 ... 6 mm / 0.22 in
Type of mounting	DIN-rail mounting (EN 60715) in 2 positions
Dimensions and weight:	
Dimensions (mm) W x H x L	40 x 163 x 163 (incl. female connector) Length from upper-edge of DIN 35 rail
Weight	960 g
Standards and approvals:	
Standards/Specifications	EN 60950, EN 61204-3, UL 60950, UL 508

Switched-Mode Power Supply, 1-Phase

***EPSITRON*® PRO Power**



- Primary switch mode power supply unit with PowerBoost and TopBoost
- Stand-by input for switching off the output and minimizing power consumption
- DC OK contact for output monitoring
- Parallel operation, series connection possible
- Prepared for class I equipment
- Natural convection cooling when horizontally mounted
- Enclosed for use in switchgear cabinets
- Electrically isolated output voltage (SELV) acc. to EN 60950-1/UL 60950

Description	Item No.	Pack. Unit
Switched-Mode Power Supply, 24 V DC / 5 A	**787-822**	1

Technical Data

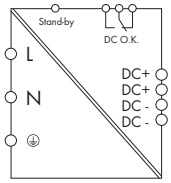
Input:	
Nominal input voltage Vi nom	100 ... 240 VAC
Input voltage range	85 ... 264 VAC; 120 ... 350 VDC
Frequency	44 Hz ... 66 Hz
Input current Ii	0.97 A at 230 VAC and 5 ADC
Discharge current	1 mA typ.
Inrush current	< 15 A
Mains failure hold-up time	35 ms typ. at 230 VAC
Output:	
Nominal output voltage Vo nom	24 VDC (SELV)
Output voltage range	22... 29.5 VDC adjustable
Output current Io	5 A at 24 VDC
PowerBoost	10 ADC (for 4 sec.);
	7.5 ADC (for another 2 sec.)
TopBoost	21 ADC (for 25 ms)
Factory preset	24 VDC
Adjustment accuracy	1%
Residual ripple	< 70 mV (peak-to-peak)
Current limitation	1.1 x Io typ.
Overload behavior	Constant current
Operational indication	LED green (DC O.K.), LED red (error)
Signaling	Relay contact DC O.K. (changeover
	contact)
Efficiency / power losses:	
Efficiency	87.8 % typ.
Power loss P_V	0.5 W (stand-by) / 5.0 W (no load) /
	14.6 W (rated load)
Fuse protection:	
Internal fuse	T 4 A / 250 V
External fuse	C10 or B16 circuit breakers
	An external DC fuse is required for the DC
	input voltage
	Transient overvoltage protection: Varistor

Technical Data

Environmental requirements:	
Ambient operating temperature	-25°C ... +70°C
Storage temperature	-25 °C ... +85 °C
Rel. humidity	30 % ... 85 % (no condensation)
Derating	-2.5 % / K (> 55 °C)
Degree of pollution	2 (acc. to EN 50178)
Climatic category	3K3 (acc. to EN 60721)
Safety and protection:	
Test voltage pri.-sec./ pri.-gr. / sec.-gr.	4.2 kV DC / 2.2 kV DC / 0.7 kV DC
Protection class	Prepared for class I equipment
Degree of protection	IP20 (acc. to EN 60529)
Overvoltage protection	via varistor at primary circuit
Short circuit protection	yes
No-load proof	yes
Feedback voltage	max. 35 VDC
Parallel operation	yes
Series connection	yes
Connection and type of mounting:	
Wire connection	Input/Output: WAGO 231 Series
	Signalising: WAGO 733 Series
Cross sections	Input/Output:
	0.08 mm² ... 2.5 mm² / AWG 28 ... 12
	Signalising:
	0.08 mm² ... 0.5 mm² / AWG 28 ... 20
Strip lengths	Input/Output: 8 ... 9 mm / 0.33 in
	Signalising: 5 ... 6 mm / 0.22 in
Type of mounting	DIN-rail mounting (EN 60715) in
	2 positions
Dimensions and weight:	
Dimensions (mm) W x H x L	57 x 163 x 163
	Height from upper-edge of DIN 35 rail
Weight	1268 g
Standards and approvals:	
Standards/Specifications	EN 60950, EN 61204-3, UL 60950,
	UL 508

Switched-Mode Power Supply, 1-Phase

***EPSITRON*® PRO Power**



- Primary switch mode power supply unit with PowerBoost and TopBoost
- Stand-by input for switching off the output and minimizing power consumption
- DC OK contact for output monitoring
- Parallel operation, series connection possible
- Prepared for class I equipment
- Natural convection cooling when horizontally mounted
- Enclosed for use in switchgear cabinets
- Electrically isolated output voltage (SELV) acc. to EN 60950-1/UL 60950

Description	Item No.	Pack. Unit
Switched-Mode Power Supply, 24 V DC / 10 A	**787-832**	1

Technical Data

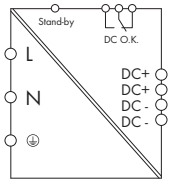
Input:	
Nominal input voltage Vi nom	110 ... 240 VAC
Input voltage range	85 ... 264 VAC; 120 ... 350 VDC
Frequency	44 Hz ... 66 Hz
Input current Ii	1.2 A at 230 VAC and 10 ADC
Discharge current	1mA typ.
Inrush current	≤ Ie (active inrush current limitation)
Mains failure hold-up time	24 ms typ. at 230 VAC
Output:	
Nominal output voltage Vo nom	24 VDC (SELV)
Output voltage range	22... 29.5 VDC adjustable
Output current Io	10 A at 24 V DC
PowerBoost	20 ADC (for 4 sec.);
	15 ADC (for another 2 sec.)
TopBoost	60 ADC (for 25 ms)
Factory preset	24 VDC
Adjustment accuracy	1%
Residual ripple	< 70 mV (peak-to-peak)
Current limitation	1.1 x Io typ.
Overload behavior	Constant current
Operational indication	LED green (DC O.K.), LED red (error)
Signaling	Relay contact DC O.K. (changeover contact)
Efficiency / power losses:	
Efficiency	91.8 % typ.
Power loss P_V	0.8 W (stand-by) / 3.5 W (no load) / 19.7 W (rated load)
Fuse protection:	
Internal fuse	T 6.3 A / 250 V
External fuse	C10 or B16 circuit breakers
	An external DC fuse is required for the DC input voltage
	Transient overvoltage protection: Varistor

Technical Data

Environmental requirements:	
Ambient operating temperature	-25°C ... +70°C
Storage temperature	-25 °C ... +85 °C
Rel. humidity	30 % ... 85 % (no condensation)
Derating	-3 % / K (> 50 °C)
Degree of pollution	2 (acc. to EN 50178)
Climatic category	3K3 (acc. to EN 60721)
Safety and protection:	
Test voltage pri.-sec./ pri.-gr. / sec.-gr.	4.2 kV DC / 2.2 kV DC / 0.7 kV DC
Protection class	Prepared for class I equipment
Degree of protection	IP20 (acc. to EN 60529)
Overvoltage protection	via varistor at primary circuit
Short circuit protection	yes
No-load proof	yes
Feedback voltage	max. 35 VDC
Parallel operation	yes
Series connection	yes
Connection and type of mounting:	
Wire connection	Input/Output: WAGO 231 Series
	Signalising: WAGO 733 Series
Cross sections	Input/Output:
	0.08 mm² ... 2.5 mm² / AWG 28 ... 12
	Signalising:
	0.08 mm² ... 0.5 mm² / AWG 28 ... 20
Strip lengths	Input/Output: 8 ... 9 mm / 0.33 in
	Signalising: 5 ... 6 mm / 0.22 in
Type of mounting	DIN-rail mounting (EN 60715) in
	2 positions
Dimensions and weight:	
Dimensions (mm) W x H x L	57 x 163 x 179
	Height from upper-edge of DIN 35 rail
Weight	1485 g
Standards and approvals:	
Standards/Specifications	EN 60950, EN 61204-3, UL 60950, UL 508

Switched-Mode Power Supply, 1-Phase

***EPSITRON*® PRO Power**



- Primary switch mode power supply unit with PowerBoost and TopBoost
- Stand-by input for switching off the output and minimizing power consumption
- DC OK contact for output monitoring
- Parallel operation, series connection possible
- Prepared for class I equipment
- Natural convection cooling when horizontally mounted
- Enclosed for use in switchgear cabinets
- Electrically isolated output voltage (SELV) acc. to EN 60950-1/UL 60950

Description	Item No.	Pack. Unit
Switched-Mode Power Supply, 24 V DC / 20 A	**787-834**	1

Technical Data

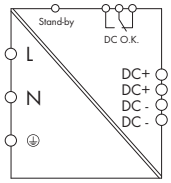
Input:	
Nominal input voltage Vi nom	110 ... 240 VAC
Input voltage range	85 ... 264 VAC; 120 ... 350 VDC
Input voltage derating	-1.5 % / V AC < 110 VAC
Frequency	50 Hz ... 60 Hz
Input current Ii	2.3 A at 230 VAC and 20 ADC
Discharge current	1 mA typ.
Inrush current	< 8 A (active inrush current limitation)
Mains failure hold-up time	25 ms typ. at 230 VAC
Output:	
Nominal output voltage Vo nom	24 VDC (SELV)
Output voltage range	22 ... 29.5 VDC adjustable
Output current Io	20 A at 24 V DC
PowerBoost	30 ADC (for 4 s); 25 ADC (for 8 s)
TopBoost	80 ADC (for 25 ms)
Factory preset	24 VDC
Adjustment accuracy	1%
Residual ripple	< 70 mV (peak-peak)
Current limitation	1.1 x Io typ.
Overload behavior	TopBoost / PowerBoost /Constant current
Operational indication	LED green (DC O.K.), LED red (error)
Signaling	Relay contact DC O.K. (changeover contact)
Efficiency / power losses:	
Efficiency	91 % typ.
Power loss P_V	0.8 W (stand-by) / 4.8 W (no load) / 50.2 W (rated load)
Fuse protection:	
Internal fuse	T 10 A / 250 V
External fuse	Circuit breakers 6 A, 10 A, 16 A, characteristic: B or C An external DC fuse is required for the DC input voltage

Technical Data

Environmental requirements:	
Ambient operating temperature	-25°C ... +70°C
Storage temperature	-25 °C ... +85 °C
Rel. humidity	30 % ... 85 % (no condensation)
Derating	-3 % / K (> +50 °C)
Degree of pollution	2 (acc. to EN 50178)
Climatic category	3K3 (acc. to EN 60721)
Safety and protection:	
Test voltage pri.-sec./ pri.-gr. / sec.-gr.	4.2 kV DC / 2.2 kV DC / 0.7 kV DC
Protection class	Prepared for class I equipment
Degree of protection	IP20 (acc. to EN 60529)
Overvoltage protection	via varistor at primary circuit
Short circuit protection	yes
No-load proof	yes
Feedback voltage	max. 35 VDC
Parallel operation	yes
Series connection	yes
Connection and type of mounting:	
Wire connection	Input: WAGO 231 Series Output: WAGO 831 Series Signalising: WAGO 733 Series
Cross sections	Input: 0.08 mm² ... 2.5 mm² / AWG 28 ... 12 Output: 0.5 mm² ... 10 mm² / AWG 20 ... 8 Signalising: 0.08 mm² ... 0.5 mm² / AWG 28 ... 20
Strip lengths	Input: 8 ... 9 mm / 0.33 in Output: 13 ... 15 mm / 0.55 in Signalising: 5 ... 6 mm / 0.22 in
Type of mounting	DIN-rail mounting (EN 60715) in 2 positions
Dimensions and weight:	
Dimensions (mm) W x H x L	97 x 171 x 187 (incl. female connector) Length from upper-edge of DIN 35 rail
Weight	2300 g
Standards and approvals:	
Standards/Specifications	EN 60950, EN 61204-3, UL 60950, UL 508

Switched-Mode Power Supply, 1-Phase

***EPSITRON*® PRO Power**



- Primary switch mode power supply unit with PowerBoost and TopBoost
- Stand-by input for switching off the output and minimizing power consumption
- DC OK contact for output monitoring
- Parallel operation, series connection possible
- Prepared for class I equipment
- Natural convection cooling when horizontally mounted
- Enclosed for use in switchgear cabinets
- Electrically isolated output voltage (SELV) acc. to EN 60950-1/UL 60950

Description	Item No.	Pack. Unit
Switched-Mode Power Supply, 48 V DC / 5 A	**787-833**	1

Technical Data

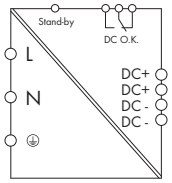
Input:	
Nominal input voltage Vi nom	110 ... 240 VAC
Input voltage range	85 ... 264 VAC; 120 ... 350 VDC
Input voltage derating	-1.5 % / V AC < 110 VAC
Frequency	50 Hz ... 60 Hz
Input current Ii	1.2 A at 230 VAC and 5 ADC
Discharge current	1 mA typ.
Inrush current	< 8 A (active inrush current limitation)
Mains failure hold-up time	20 ms typ. at 230 VAC
Output:	
Nominal output voltage Vo nom	48 VDC (SELV)
Output voltage range	33 ... 52 VDC adjustable
Output current Io	5 A at 48 V DC
PowerBoost	10 ADC (for 4 s); 7.5 ADC (for 8 s)
TopBoost	30 ADC (for 25 ms)
Factory preset	48 VDC
Adjustment accuracy	1%
Residual ripple	< 70 mV (peak-peak)
Current limitation	1.1 x Io typ.
Overload behavior	TopBoost / PowerBoost /Constant current
Operational indication	LED green (DC O.K.), LED red (error)
Signaling	Relay contact DC O.K. (changeover contact)
Efficiency / power losses:	
Efficiency	91 % typ.
Power loss P_V	0.8 W (stand-by) / 7.4 W (no load) / 21.6 W (rated load)
Fuse protection:	
Internal fuse	T 6.3 A / 250 V
External fuse	Circuit breakers 6 A, 10 A, 16 A, characteristic: B or C An external DC fuse is required for the DC input voltage

Technical Data

Environmental requirements:	
Ambient operating temperature	-25 °C ... +70 °C
Storage temperature	-25 °C ... +85 °C
Rel. humidity	30 % ... 85 % (no condensation)
Derating	-3 % / K (> +50 °C)
Degree of pollution	2 (acc. to EN 50178)
Climatic category	3K3 (acc. to EN 60721)
Safety and protection:	
Test voltage pri.-sec./ pri.-gr. / sec.-gr.	4.2 kV DC / 2.2 kV DC / 0.7 kV DC
Protection class	Prepared for class I equipment
Degree of protection	IP20 (acc. to EN 60529)
Overvoltage protection	via varistor at primary circuit
Short circuit protection	yes
No-load proof	yes
Feedback voltage	max. 63 VDC
Parallel operation	yes
Series connection	yes
Connection and type of mounting:	
Wire connection	Input/Output: WAGO 231 Series Signalising: WAGO 733 Series
Cross sections	Input/Output: 0.08 mm² ... 2.5 mm² / AWG 28 ... 12 Signalising: 0.08 mm² ... 0.5 mm² / AWG 28 ... 20
Strip lengths	Input/Output: 8 ... 9 mm / 0.33 in Signalising: 5 ... 6 mm / 0.22 in
Type of mounting	DIN-rail mounting (EN 60715) in 2 positions
Dimensions and weight:	
Dimensions (mm) W x H x L	57 x 163 x 179 (incl. female connector) Length from upper-edge of DIN 35 rail
Weight	1475 g
Standards and approvals:	
Standards/Specifications	EN 60950, EN 61204-3, UL 60950, UL 508

Switched-Mode Power Supply, 1-Phase

***EPSITRON*® PRO Power**



- Primary switch mode power supply unit with PowerBoost and TopBoost
- Stand-by input for switching off the output and minimizing power consumption
- DC OK contact for output monitoring
- Parallel operation, series connection possible
- Prepared for class I equipment
- Natural convection cooling when horizontally mounted
- Enclosed for use in switchgear cabinets
- Electrically isolated output voltage (SELV) acc. to EN 60950-1/UL 60950

Description	Item No.	Pack. Unit
Switched-Mode Power Supply, 48 V DC / 10 A	**787-835**	1

Technical Data

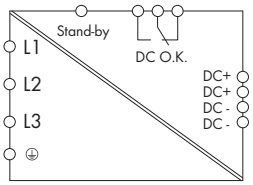
Input:	
Nominal input voltage Vi nom	110 ... 240 VAC
Input voltage range	85 ... 264 VAC; 120 ... 350 VDC
Input voltage derating	-1.5 % / V AC < 110 VAC
Frequency	50 Hz ... 60 Hz
Input current Ii	2.3 A at 230 VAC and 10 ADC
Discharge current	1 mA typ.
Inrush current	< 8 A (active inrush current limitation)
Mains failure hold-up time	20 ms typ. at 230 VAC
Output:	
Nominal output voltage Vo nom	48 VDC (SELV)
Output voltage range	33 ... 52 VDC adjustable
Output current Io	10 A at 48 V DC
PowerBoost	17.5 ADC (for 4 s); 15 ADC (for 8 s)
TopBoost	60 ADC (for 25 ms)
Factory preset	48 VDC
Adjustment accuracy	1%
Residual ripple	< 70 mV (peak-peak)
Current limitation	1.1 x Io typ.
Overload behavior	TopBoost / PowerBoost /Constant current
Operational indication	LED green (DC O.K.), LED red (error)
Signaling	Relay contact DC O.K. (changeover contact)
Efficiency / power losses:	
Efficiency	91 % typ.
Power loss P_V	0.8 W (stand-by) / 4.8 W (no load) / 43.2 W (rated load)
Fuse protection:	
Internal fuse	T 10 A / 250 V
External fuse	Circuit breakers 6 A, 10 A, 16 A, characteristic: B or C
	An external DC fuse is required for the DC input voltage

Technical Data

Environmental requirements:	
Ambient operating temperature	-25 °C ... +70 °C
Storage temperature	-25 °C ... +85 °C
Rel. humidity	30 % ... 85 % (no condensation)
Derating	-3 % / K (> +50 °C)
Degree of pollution	2 (acc. to EN 50178)
Climatic category	3K3 (acc. to EN 60721)
Safety and protection:	
Test voltage pri.-sec./ pri.-gr. / sec.-gr.	4.2 kV DC / 2.2 kV DC / 0.7 kV DC
Protection class	Prepared for class I equipment
Degree of protection	IP20 (acc. to EN 60529)
Overvoltage protection	via varistor at primary circuit
Short circuit protection	yes
No-load proof	yes
Feedback voltage	max. 63 VDC
Parallel operation	yes
Series connection	yes
Connection and type of mounting:	
Wire connection	Input: WAGO 231 Series
	Output: WAGO 831 Series
	Signalising: WAGO 733 Series
Cross sections	Input:
	0.08 mm² ... 2.5 mm² / AWG 28 ... 12
	Output:
	0.5 mm² ... 10 mm² / AWG 20 ... 8
	Signalising:
	0.08 mm² ... 0.5 mm² / AWG 28 ... 20
Strip lengths	Input: 8 ... 9 mm / 0.33 in
	Output: 13 ... 15 mm / 0.55 in
	Signalising: 5 ... 6 mm / 0.22 in
Type of mounting	DIN-rail mounting (EN 60715) in 2 positions
Dimensions and weight:	
Dimensions (mm) W x H x L	97 x 171 x 187
	(incl. female connector)
	Length from upper-edge of DIN 35 rail
Weight	2460 g
Standards and approvals:	
Standards/Specifications	EN 60950, EN 61204-3, UL 60950, UL 508

Switched-Mode Power Supply, 3-Phase

***EPSITRON*® PRO Power**



- Primary switch mode power supply unit with PowerBoost and TopBoost
- Stand-by input for switching off the output and minimizing power consumption
- DC OK contact for output monitoring
- Parallel operation, series connection possible
- Prepared for class I equipment
- Natural convection cooling when horizontally mounted
- Enclosed for use in switchgear cabinets
- Electrically isolated output voltage (SELV) acc. to EN 60950-1/UL 60950

Description	Item No.	Pack. Unit
Switched-Mode Power Supply, 24 V DC / 10 A	**787-840**	1

Technical Data

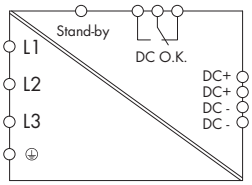
Input:	
Nominal input voltage Vi nom	3x (2x) 400 ... 500 VAC
Input voltage range	340 ... 550 VAC; 480 ... 780 VDC
Frequency	50 - 60 Hz
Input current Ii	3 x 0.6 A at 340 VAC and 10 ADC
Discharge current	1mA typ.
Inrush current	< 30 A
Mains failure hold-up time	22 ms typ. at 3 x 400 VAC
Output:	
Nominal output voltage Vo nom	24 VDC (SELV)
Output voltage range	22.8 ... 28.8 VDC adjustable
Output current Io	10 A at 24 V DC
PowerBoost	20 ADC (for 4 s); 15 ADC (for 16 s)
TopBoost	70 ADC (for 50 ms)
Factory preset	24 VDC
Adjustment accuracy	1%
Residual ripple	< 70 mV (peak-to-peak)
Current limitation	1.1 x Io typ.
Overload behavior	Constant current
Operational indication	LED green (DC O.K.), LED red (error)
Efficiency / power losses:	
Efficiency	91.7 % typ.
Power loss P_V	7.9 W (stand-by) / 19.9 W (rated load)
Fuse protection:	
Internal fuse	3 x T 1.6 A / 250 V
External fuse	3 x circuit breakers 6 A, 10 A, 16 A, characteristic: B or C; or motor circuit breakers, setpoint: 1.6 A, setting range: 1.6 ... 2.5 A An external DC fuse is required for the DC input voltage

Technical Data

Environmental requirements:	
Ambient operating temperature	-25 °C ... +70 °C
Storage temperature	-25 °C ... +85 °C
Rel. humidity	30 % ... 85 % (no condensation)
Derating	-3 % / K (> 50 °C)
Degree of pollution	2 (acc. to EN 50178)
Climatic category	3K3 (acc. to EN 60721)
Safety and protection:	
Test voltage pri.-sec./ pri.-gr. / sec.-gr.	4.2 kV DC / 2.2 kV DC / 0.7 kV DC
Protection class	Prepared for class I equipment
Degree of protection	IP20 acc. to EN 60529
Overvoltage protection	via varistor at primary circuit
Short circuit protection	yes
No-load proof	yes
Feedback voltage	max. 35 VDC
Parallel operation	yes
Series connection	yes
Connection and type of mounting:	
Wire connection	Input/Output: WAGO 231 Series
Cross sections	Input/Output: 0.08 ... 2.5 mm² / AWG 28 ... 12
Strip lengths	Input/Output: 8 ... 9 mm / 0.33 in
Type of mounting	DIN-rail mounting (EN 60715) in 2 positions
Dimensions and weight:	
Dimensions (mm) W x H x L	57 x 163 x 179
	Height from upper-edge of DIN 35 rail
Weight	1000 g
Standards and approvals:	
Standards/Specifications	EN 60950, EN 61204-3, UL 60950, UL 508

Switched-Mode Power Supply, 3-Phase

***EPSITRON*® PRO Power**



- Primary switch mode power supply unit with PowerBoost and TopBoost
- Stand-by input for switching off the output and minimizing power consumption
- DC OK contact for output monitoring
- Parallel operation, series connection possible
- Prepared for class I equipment
- Natural convection cooling when horizontally mounted
- Enclosed for use in switchgear cabinets
- Electrically isolated output voltage (SELV) acc. to EN 60950-1/UL 60950

Description	Item No.	Pack. Unit
Switched-Mode Power Supply, 24 V DC / 20 A	**787-842**	1

Technical Data

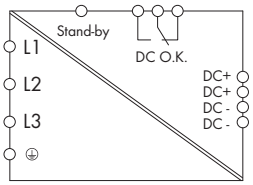
Input:	
Nominal input voltage Vi nom	3x (2x) 400 ... 500 VAC
Input voltage range	340 ... 550 VAC; 480 ... 780 VDC
Frequency	50 - 60 Hz
Input current Ii	3 x 1.0 A at 340 VAC and 20 ADC
Discharge current	1mA typ.
Inrush current	< 30 A
Mains failure hold-up time	13 ms typ. at 3 x 400 VAC
Output:	
Nominal output voltage Vo nom	24 VDC (SELV)
Output voltage range	22.8 ... 28.8 VDC adjustable
Output current Io	20 A at 24 VDC
PowerBoost	40 ADC (for 4 s); 30 ADC (for 16 s)
TopBoost	80 ADC (for 50 ms)
Factory preset	24 VDC
Adjustment accuracy	1%
Residual ripple	< 70 mV (peak-to-peak)
Current limitation	1.1 x Io typ.
Overload behavior	Constant current
Operational indication	LED green (DC O.K.), LED red (error)
Efficiency / power losses:	
Efficiency	92.9 % typ.
Power loss P_V	8.3 W (stand-by) / 34.1 W (rated load)
Fuse protection:	
Internal fuse	3 x T 2.5 A / 250 V
External fuse	3 x circuit breakers 6 A, 10 A, 16 A, characteristic: B or C; or motor circuit breakers, setpoint: 2.5 A, setting range: 2.5 ... 4.0 A An external DC fuse is required for the DC input voltage

Technical Data

Environmental requirements:	
Ambient operating temperature	-25 °C ... +70 °C
Storage temperature	-25 °C ... +85 °C
Rel. humidity	30 % ... 85 % (no condensation)
Derating	-3 % / K (> 50 °C)
Degree of pollution	2 (acc. to EN 50178)
Climatic category	3K3 (acc. to EN 60721)
Safety and protection:	
Test voltage pri.-sec./ pri.-gr. / sec.-gr.	4.2 kV DC / 2.2 kV DC / 0.7 kV DC
Protection class	Prepared for class I equipment
Degree of protection	IP20 acc. to EN 60529
Overvoltage protection	via varistor at primary circuit
Short circuit protection	yes
No-load proof	yes
Feedback voltage	max. 35 VDC
Parallel operation	yes
Series connection	yes
Connection and type of mounting:	
Wire connection	Input: WAGO 231 Series Output: WAGO 831 Series
Cross sections	Input: 0.08 mm² ... 2.5 mm² / AWG 28 ... 12 Output: 0.5 mm² ... 10 mm² / AWG 20 ... 8
Strip lengths	Input: 8 ... 9 mm / 0.33 in Output: 13 ... 15 mm / 0.55 in
Type of mounting	DIN-rail mounting (EN 60715) in 2 positions
Dimensions and weight:	
Dimensions (mm) W x H x L	77 x 171 x 179 Height from upper-edge of DIN 35 rail
Weight	1300 g
Standards and approvals:	
Standards/Specifications	EN 60950, EN 61204-3, UL 60950, UL 508

Switched-Mode Power Supply, 3-Phase

***EPSITRON*® PRO Power**



- Primary switch mode power supply unit with PowerBoost and TopBoost
- Stand-by input for switching off the output and minimizing power consumption
- DC OK contact for output monitoring
- Parallel operation, series connection possible
- Prepared for class I equipment
- Natural convection cooling when horizontally mounted
- Enclosed for use in switchgear cabinets
- Electrically isolated output voltage (SELV) acc. to EN 60950-1/UL 60950

Description	Item No.	Pack. Unit
Switched-Mode Power Supply, 24 V DC / 40 A	**787-844**	1
Switched-Mode Power Supply, 24 V DC / 40 A, with lateral DIN-rail support	**787-844/000-002**	1

Technical Data

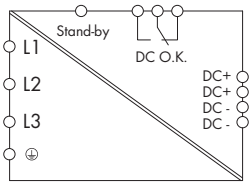
Input:	
Nominal input voltage Vi nom	3x (2x) 400 ... 500 VAC
Input voltage range	340 ... 550 VAC; 480 ... 780 VDC
Frequency	50 - 60 Hz
Input current Ii	3 x 2.0 A at 340 VAC and 40 ADC
Discharge current	1 mA typ.
Inrush current	< 30 A
Mains failure hold-up time	15 ms typ. at 3 x 400 VAC
Output:	
Nominal output voltage Vo nom	24 VDC (SELV)
Output voltage range	22.8 ... 28.8 VDC adjustable
Output current Io	40 A at 24 VDC
PowerBoost	60 ADC (for 4 s); 50 ADC (for 16 s)
TopBoost	100 ADC (for 50 ms)
Factory preset	24 VDC
Adjustment accuracy	1%
Residual ripple	< 70 mV (peak-to-peak)
Current limitation	1.1 x Io typ.
Overload behavior	Constant current
Operational indication	LED green (DC O.K.), LED red (error)
Efficiency / power losses:	
Efficiency	93.6 % typ.
Power loss P_v	7.0 W (stand-by) / 61.5 W (rated load)
Fuse protection:	
Internal fuse	3 x T 3.2 A / 250 V
External fuse	3 x circuit breakers 6 A, 10 A, 16 A, characteristic: B or C; or motor circuit breakers, setpoint: 3.2 A, setting range: 2.5 ... 4.0 A An external DC fuse is required for the DC input voltage

Technical Data

Environmental requirements:	
Ambient operating temperature	-25 °C ... +70 °C
Storage temperature	-25 °C ... +85 °C
Rel. humidity	30 % ... 85 % (no condensation)
Derating	-5 % / K (45 °C)
Degree of pollution	2 (acc. to EN 50178)
Climatic category	3K3 (acc. to EN 60721)
Safety and protection:	
Test voltage pri.-sec./ pri.-gr. / sec.-gr.	4.2 kV DC / 2.2 kV DC / 0.7 kV DC
Protection class	Prepared for class I equipment
Degree of protection	IP20 acc. to EN 60529
Overvoltage protection	via varistor at primary circuit
Short circuit protection	yes
No-load proof	yes
Feedback voltage	max. 35 VDC
Parallel operation	yes
Series connection	yes
Connection and type of mounting:	
Wire connection	Input: WAGO 231 Series Output: WAGO 831 Series
Cross sections	Input: 0.08 mm² ... 2.5 mm² / AWG 28 ... 12 Output: 0.5 mm² ... 10 mm² / AWG 20 ... 8
Strip lengths	Input: 8 ... 9 mm / 0.33 in Output: 13 ... 15 mm / 0.55 in
Type of mounting	DIN-rail mounting (EN 60715) in 2 positions
Dimensions and weight:	
Dimensions (mm) W x H x L	128 x 171 x 205 Height from upper-edge of DIN 35 rail
Weight	2500 g
Standards and approvals:	
Standards/Specifications	EN 60950, EN 61204-3, UL 60950, UL 508

Switched-Mode Power Supply, 3-Phase

***EPSITRON*® PRO Power**



- Primary switch mode power supply unit with PowerBoost and TopBoost
- Stand-by input for switching off the output and minimizing power consumption
- DC OK contact for output monitoring
- Parallel operation, series connection possible
- Prepared for class I equipment
- Natural convection cooling when horizontally mounted
- Enclosed for use in switchgear cabinets
- Electrically isolated output voltage (SELV) acc. to EN 60950-1/UL 60950

Description	Item No.	Pack. Unit
Switched-Mode Power Supply, 48 V DC / 10 A	**787-845**	1

Technical Data

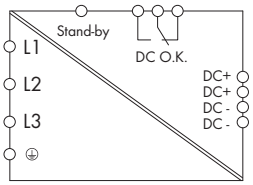
Input:	
Nominal input voltage Vi nom	3x (2x) 400 ... 500 VAC
Input voltage range	340 ... 550 VAC; 480 ... 780 VDC
Frequency	50 Hz ... 60 Hz
Input current Ii	3 x 1.1 A at 340 VAC and 10 ADC
Discharge current	1 mA typ.
Inrush current	< 30 A (peak)
Mains failure hold-up time	12 ms typ. at 3 x 400 VAC
Output:	
Nominal output voltage Vo nom	48 VDC (SELV)
Output voltage range	39 ... 53 VDC adjustable
Output current Io	10 A at 48 VDC
PowerBoost	15 ADC (for 4 s); 12.5 ADC (for 16 s)
TopBoost	55 ADC (for 50 ms)
Factory preset	48 VDC
Adjustment accuracy	1 %
Residual ripple	< 70 mV (peak-to-peak)
Current limitation	1.1 x Io typ.
Overload behavior	TopBoost / PowerBoost /Constant current
Operational indication	LED green (DC O.K.), LED red (error)
Efficiency / power losses:	
Efficiency	93 % typ.
Power loss P_V	0.8 W (stand-by) / 8.2 W (no load) / 38 W (rated load)
Fuse protection:	
Internal fuse	3 x T 3.2 A / 250 V
External fuse	3 x circuit breakers 6 A, 10 A, 16 A, characteristic: B or C; or motor circuit breakers, setpoint: 2.5 A, setting range: 2.5 ... 4.0 A An external DC fuse is required for the DC input voltage

Technical Data

Environmental requirements:	
Ambient operating temperature	-25 °C ... +70 °C
Storage temperature	-25 °C ... +85 °C
Rel. humidity	30 % ... 85 % (no condensation)
Derating	-3 % / K (> +50 °C)
Degree of pollution	2 (acc. to EN 50178)
Climatic category	3K3 (acc. to EN 60721)
Safety and protection:	
Test voltage pri.-sec./ pri.-gr. / sec.-gr.	4.2 kV DC / 2.2 kV DC / 0.7 kV DC
Protection class	Prepared for class I equipment
Degree of protection	IP20 (acc. to EN 60529)
Overvoltage protection	via varistor at primary circuit
Short circuit protection	yes
No-load proof	yes
Feedback voltage	max. 63 VDC
Parallel operation	yes
Series connection	yes
Connection and type of mounting:	
Wire connection	Input: WAGO 231 Series Output: WAGO 831 Series Signalising: WAGO 733 Series
Cross sections	Input: 0.08 mm² ... 2.5 mm² / AWG 28 ... 12 Output: 0.5 mm² ... 10 mm² / AWG 20 ... 8 Signalising: 0.08 mm² ... 0.5 mm² / AWG 28 ... 20
Strip lengths	Input: 8 ... 9 mm / 0.33 in Output: 13 ... 15 mm / 0.55 in Signalising: 5 ... 6 mm / 0.22 in
Type of mounting	DIN-rail mounting (EN 60715) in 2 positions
Dimensions and weight:	
Dimensions (mm) W x H x L	77 x 171 x 179 (incl. female connector) Length from upper-edge of DIN 35 rail
Weight	1900 g
Standards and approvals:	
Standards/Specifications	EN 60950, EN 61204-3, UL 60950, UL 508

Switched-Mode Power Supply, 3-Phase

***EPSITRON*® PRO Power**



- Primary switch mode power supply unit with PowerBoost and TopBoost
- Stand-by input for switching off the output and minimizing power consumption
- DC OK contact for output monitoring
- Parallel operation, series connection possible
- Prepared for class I equipment
- Natural convection cooling when horizontally mounted
- Enclosed for use in switchgear cabinets
- Electrically isolated output voltage (SELV) acc. to EN 60950-1/UL 60950

Description	Item No.	Pack. Unit
Switched-Mode Power Supply, 48 V DC / 20 A	**787-847**	1

Technical Data

Input:	
Nominal input voltage Vi nom	3x (2x) 400 ... 500 VAC
Input voltage range	340 ... 550 VAC; 480 ... 780 VDC
Frequency	50 Hz ... 60 Hz
Input current Ii	3 x 2.0 A at 340 VAC and 20 ADC
Discharge current	1 mA typ.
Inrush current	< 30 A (peak)
Mains failure hold-up time	15 ms typ. at 3 x 400 VAC
Output:	
Nominal output voltage Vo nom	48 VDC (SELV)
Output voltage range	39 ... 53 VDC adjustable
Output current Io	20 A at 48 VDC
PowerBoost	30 ADC (for 4 s); 25 ADC (for 16 s)
TopBoost	80 ADC (for 25 ms)
Factory preset	48 VDC
Adjustment accuracy	1%
Residual ripple	< 70 mV (peak-peak)
Current limitation	1.1 x Io typ.
Overload behavior	TopBoost / PowerBoost /Constant current
Operational indication	LED green (DC O.K.), LED red (error)
Efficiency / power losses:	
Efficiency	94.4 % typ.
Power loss P_v	0.8 W (stand-by) / 5.2 W (no load) / 59.2 W (rated load)
Fuse protection:	
Internal fuse	3 x T 3.2 A / 250 V
External fuse	3 x circuit breakers 6 A, 10 A, 16 A, characteristic: B or C; or motor circuit breakers, setpoint: 3.2 A, setting range: 2.5 ... 4.0 A An external DC fuse is required for the DC input voltage

Technical Data

Environmental requirements:	
Ambient operating temperature	-25 °C ... +70 °C
Storage temperature	-25 °C ... +85 °C
Rel. humidity	30 % ... 85 % (no condensation)
Derating	-5 % / K (> +45 °C)
Degree of pollution	2 (acc. to EN 50178)
Climatic category	3K3 (acc. to EN 60721)
Safety and protection:	
Test voltage pri.-sec./ pri.-gr. / sec.-gr.	4.2 kV DC / 2.2 kV DC / 0.7 kV DC
Protection class	Prepared for class I equipment
Degree of protection	IP20 (acc. to EN 60529)
Overvoltage protection	via varistor at primary circuit
Short circuit protection	yes
No-load proof	yes
Feedback voltage	max. 63 VDC
Parallel operation	yes
Series connection	yes
Connection and type of mounting:	
Wire connection	Input: WAGO 231 Series Output: WAGO 831 Series Signalising: WAGO 733 Series
Cross sections	Input: 0.08 mm² ... 2.5 mm² / AWG 28 ... 12 Output: 0.5 mm² ... 10 mm² / AWG 20 ... 8 Signalising: 0.08 mm² ... 0.5 mm² / AWG 28 ... 20
Strip lengths	Input: 8 ... 9 mm / 0.33 in Output: 13 ... 15 mm / 0.55 in Signalising: 5 ... 6 mm / 0.22 in
Type of mounting	DIN-rail mounting (EN 60715) in 2 positions
Dimensions and weight:	
Dimensions (mm) W x H x L	128 x 171 x 205 (incl. female connector) Length from upper-edge of DIN 35 rail
Weight	3270 g
Standards and approvals:	
Standards/Specifications	EN 60950, EN 61204-3, UL 60950, UL 508

Switched-Mode Power Supply, 3-Phase

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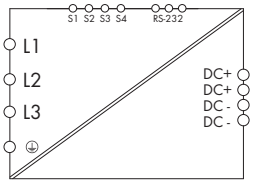


- Primary switch mode power supply unit with PowerBoost and TopBoost
- LineMonitor for parameter setting and monitoring
- RS-232 serial interface
- 4 signal outputs
- Parallel operation, series connection possible
- Prepared for class I equipment
- Natural convection cooling when horizontally mounted
- Enclosed for use in switchgear cabinets
- Electrically isolated output voltage (SELV) acc. to EN 60950-1/UL 60950

Description	Item No.	Pack. Unit
Switched-Mode Power Supply, 24 V DC / 10 A	**787-850**	1

Technical Data

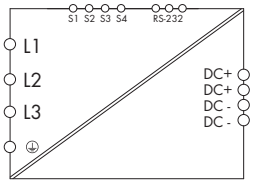
Input:	
Nominal input voltage Vi nom	3x (2x) 400 ... 500 VAC
Input voltage range	340 ... 550 VAC; 480 ... 780 VDC
Frequency	50 - 60 Hz
Input current Ii	3 x 0.6 A at 340 VAC and 10 ADC
Discharge current	1 mA typ.
Inrush current	< 30 A
Mains failure hold-up time	22 ms typ. at 3 x 400 VAC
Output:	
Nominal output voltage Vo nom	24 VDC (SELV)
Output voltage range	22.8 ... 28.8 VDC adjustable
Output current Io	10 A at 24 VDC
PowerBoost	20 ADC (for 4 s); 15 ADC (for 16 s)
TopBoost	70 ADC (for 50 ms)
Factory preset	24 VDC
Adjustment accuracy	1%
Residual ripple	< 70 mV (peak-to-peak)
Current limitation	1.1 x Io typ.
Overload behavior	adjustable (constant current / fuse mode)
Operational indication	LED green (DC O.K.), LED yellow (warning), LED red (error)
Signaling	LED, LCD, 4 x signal output 24 V DC, 25 mA
LineMonitor, parameter setting	via LCD and RS-232 serial interface
Efficiency / power losses:	
Efficiency	91.7 % typ.
Power loss P_V	7.8 W (stand-by) / 19.9 W (rated load)
Fuse protection:	
Internal fuse	3 x T 1.6 A / 250 V
External fuse	3 x circuit breakers 6 A, 10 A, 16 A, characteristic: B or C; or motor circuit breakers, setpoint: 1.6 A, setting range: 1.6 ... 2.5 A An external DC fuse is required for the DC input voltage

Technical Data

Environmental requirements:	
Ambient operating temperature	-25 °C ... +70 °C
Storage temperature	-25 °C ... +85 °C
Rel. humidity	30 % ... 85 % (no condensation)
Derating	-3 % / K (> 50 °C)
Degree of pollution	2 (acc. to EN 50178)
Climatic category	3K3 (acc. to EN 60721)
Safety and protection:	
Test voltage pri.-sec./ pri.-gr. / sec.-gr.	4.2 kV DC / 2.2 kV DC / 0.7 kV DC
Protection class	Prepared for class I equipment
Degree of protection	IP20 acc. to EN 60529
Overvoltage protection	via varistor at primary circuit
Short circuit protection	yes
No-load proof	yes
Feedback voltage	max. 35 VDC
Parallel operation	yes
Series connection	yes
Connection and type of mounting:	
Wire connection	Input/Output: WAGO 231 Series Signalising: WAGO 733 Series
Cross sections	Input/Output: 0.08 mm² ... 2.5 mm² / AWG 28 ... 12 Signalising: 0.08 mm² ... 0.5 mm² / AWG 28 ... 20
Strip lengths	Input/Output: 8 ... 9 mm / 0.33 in Signalising: 5 ... 6 mm / 0.22 in
Type of mounting	DIN-rail mounting (EN 60715) in 2 positions
Dimensions and weight:	
Dimensions (mm) W x H x L	57 x 163 x 179 Height from upper-edge of DIN 35 rail
Weight	1000 g
Standards and approvals:	
Standards/Specifications	EN 60950, EN 61204-3, UL 60950, UL 508

Switched-Mode Power Supply, 3-Phase

***EPSITRON*® PRO Power**



- Primary switch mode power supply unit with PowerBoost and TopBoost
- LineMonitor for parameter setting and monitoring
- RS-232 serial interface
- 4 signal outputs
- Parallel operation, series connection possible
- Prepared for class I equipment
- Natural convection cooling when horizontally mounted
- Enclosed for use in switchgear cabinets
- Electrically isolated output voltage (SELV) acc. to EN 60950-1/UL 60950

Description	Item No.	Pack. Unit
Switched-Mode Power Supply, 24 V DC / 20 A	**787-852**	1

Technical Data

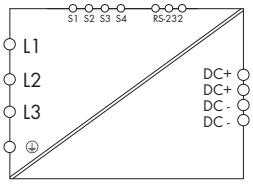
Input:	
Nominal input voltage Vi nom	3x (2x) 400 ... 500 VAC
Input voltage range	340 ... 550 VAC; 480 ... 780 VDC
Frequency	50 - 60 Hz
Input current Ii	3 x 1.0 A at 340 VAC and 20 ADC
Discharge current	1mA typ.
Inrush current	< 30 A
Mains failure hold-up time	13 ms typ. at 3 x 400 VAC
Output:	
Nominal output voltage Vo nom	24 VDC (SELV)
Output voltage range	22.8 ... 28.8 VDC adjustable
Output current Io	20 A at 24 VDC
PowerBoost	40 ADC (for 4 s); 30 ADC (for 16 s)
TopBoost	80 ADC (for 50 ms)
Factory preset	24 VDC
Adjustment accuracy	1%
Residual ripple	< 70 mV (peak-to-peak)
Current limitation	1.1 x Io typ.
Overload behavior	adjustable (constant current / fuse mode)
Operational indication	LED green (DC O.K.), LED yellow (warning), LED red (error)
Signaling	LED, LCD, 4 x signal output 24 V DC, 25 mA
LineMonitor, parameter setting	via LCD and RS-232 serial interface
Efficiency / power losses:	
Efficiency	92.9 % typ.
Power loss P_V	8.3 W (stand-by) / 34.1 W (rated load)
Fuse protection:	
Internal fuse	3 x T 2.5 A / 250 V
External fuse	3 x circuit breakers 6 A, 10 A, 16 A, characteristic: B or C; or motor circuit breakers, setpoint: 2.5 ... 4.0 A An external DC fuse is required for the DC input voltage

Technical Data

Environmental requirements:	
Ambient operating temperature	-25 °C ... +70 °C
Storage temperature	-25 °C ... +85 °C
Rel. humidity	30 % ... 85 % (no condensation)
Derating	-3 % / K (> 50 °C)
Degree of pollution	2 (acc. to EN 50178)
Climatic category	3K3 (acc. to EN 60721)
Safety and protection:	
Test voltage pri.-sec./ pri.-gr. / sec.-gr.	4.2 kV DC / 2.2 kV DC / 0.7 kV DC
Protection class	Prepared for class I equipment
Degree of protection	IP20 acc. to EN 60529
Overvoltage protection	via varistor at primary circuit
Short circuit protection	yes
No-load proof	yes
Feedback voltage	max. 35 VDC
Parallel operation	yes
Series connection	yes
Connection and type of mounting:	
Wire connection	Input: WAGO 231 Series Output: WAGO 831 Series Signalising: WAGO 733 Series
Cross sections	Input: 0.08 mm² ... 2.5 mm² / AWG 28 ... 12 Output: 0.5 mm² ... 10 mm² / AWG 20 ... 8 Signalising: 0.08 mm² ... 0.5 mm² / AWG 28 ... 20
Strip lengths	Input: 8 ... 9 mm / 0.33 in Output: 13 ... 15 mm / 0.55 in Signalising: 5 ... 6 mm / 0.22 in
Type of mounting	DIN-rail mounting (EN 60715) in 2 positions
Dimensions and weight:	
Dimensions (mm) W x H x L	77 x 171 x 179 Height from upper-edge of DIN 35 rail
Weight	1300 g
Standards and approvals:	
Standards/Specifications	EN 60950, EN 61204-3, UL 60950, UL 508

Switched-Mode Power Supply, 3-Phase

***EPSITRON*® PRO Power**



- Primary switch mode power supply unit with PowerBoost and TopBoost
- LineMonitor for parameter setting and monitoring
- RS-232 serial interface
- 4 signal outputs
- Parallel operation, series connection possible
- Prepared for class I equipment
- Natural convection cooling when horizontally mounted
- Enclosed for use in switchgear cabinets
- Electrically isolated output voltage (SELV) acc. to EN 60950-1/UL 60950

Description	Item No.	Pack. Unit
Switched-Mode Power Supply, 24 V DC / 40 A	**787-854**	1

Technical Data

Input:	
Nominal input voltage Vi nom	3x (2x) 400 ... 500 VAC
Input voltage range	340 ... 550 VAC; 480 ... 780 VDC
Frequency	50 - 60 Hz
Input current Ii	3 x 2.0 A at 340 VAC
Discharge current	1mA typ.
Inrush current	< 30 A
Mains failure hold-up time	15 ms typ. at 3 x 400 VAC
Output:	
Nominal output voltage Vo nom	24 VDC (SELV)
Output voltage range	22.8 ... 28.8 VDC adjustable
Output current Io	40 A at 24 VDC
PowerBoost	60 ADC (for 4 s); 50 ADC (for 16 s)
TopBoost	100 ADC (for 50 ms)
Factory preset	24 VDC
Adjustment accuracy	1%
Residual ripple	< 70 mV (peak-to-peak)
Current limitation	1.1 x Io typ.
Overload behavior	adjustable (constant current / fuse mode)
Operational indication	LED green (DC O.K.), LED yellow (warning), LED red (error)
Signaling	LED, LCD, 4 x signal output 24 V DC, 25 mA
LineMonitor, parameter setting	via LCD and RS-232 serial interface
Efficiency / power losses:	
Efficiency	93.6 % typ.
Power loss P_V	7.0 W (stand-by) / 61.5 W (rated load)
Fuse protection:	
Internal fuse	3 x T 3.2 A / 250 V
External fuse	3 x circuit breakers 6 A, 10 A, 16 A, characteristic: B or C; or motor circuit breakers, setpoint: 3.2 A, setting range: 2.5 ... 4.0 A An external DC fuse is required for the DC input voltage

Technical Data

Environmental requirements:	
Ambient operating temperature	-25 °C ... +55 °C
Storage temperature	-25 °C ... +85 °C
Rel. humidity	30 % ... 85 % (no condensation)
Derating	-5 % / K (> 45 °C)
Degree of pollution	2 (acc. to EN 50178)
Climatic category	3K3 (acc. to EN 60721)
Safety and protection:	
Test voltage pri.-sec./ pri.-gr. / sec.-gr.	4.2 kV DC / 2.2 kV DC / 0.7 kV DC
Protection class	Prepared for class I equipment
Degree of protection	IP20 acc. to EN 60529
Overvoltage protection	via varistor at primary circuit
Short circuit protection	yes
No-load proof	yes
Feedback voltage	max. 35 VDC
Parallel operation	yes
Series connection	yes
Connection and type of mounting:	
Wire connection	Input: WAGO 231 Series Output: WAGO 831 Series Signalising: WAGO 733 Series
Cross sections	Input: 0.08 mm² ... 2.5 mm² / AWG 28 ... 12 Output: 0.5 mm² ... 10 mm² / AWG 20 ... 8 Signalising: 0.08 mm² ... 0.5 mm² / AWG 28 ... 20
Strip lengths	Input: 8 ... 9 mm / 0.33 in Output: 13 ... 15 mm / 0.55 in Signalising: 5 ... 6 mm / 0.22 in
Type of mounting	DIN-rail mounting (EN 60715) in 2 positions
Dimensions and weight:	
Dimensions (mm) W x H x L	128 x 171 x 205 Height from upper-edge of DIN 35 rail
Weight	2300 g
Standards and approvals:	
Standards/Specifications	EN 60950, EN 61204-3, UL 60950, UL 508

Switched-Mode Power Supply, 1-Phase

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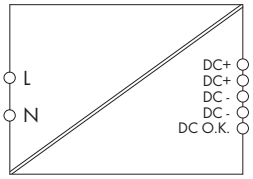

- Primary switch mode power supply unit
- Protection class II
- Natural convection cooling when horizontally mounted
- Enclosed for use in switchgear cabinets
- Bounce-free switching signal (DC OK)
- Suitable for both parallel and series operation
- Electrically isolated output voltage (SELV) acc. to EN 60950-1/UL 60950-1

Description	Item No.	Pack. Unit
Switched-mode power supply, 12 VDC / 2 A	**787-1601**	1

Technical Data

Input:	
Nominal input voltage $V_{i\,nom}$	100 ... 240 VAC
Input voltage range	85 ... 264 VAC; 120 V ... 372 VDC
Input voltage derating	-2.5 % (< 95 VAC)
Frequency	47 Hz ... 63 Hz; 0 Hz
Input current I_i	0.22 A (240 VAC);
	0.45 A (100 VAC)
Inrush current	< 30 A
Mains failure hold-up time	120 ms (230 VAC);
	15 ms (100 VAC)
Output:	
Nominal output voltage $V_{o\,nom}$	12 VDC (SELV)
Output voltage range	11.5 ... 14.5 VDC adjustable
Output current I_o	2 A at 12 VDC (2.1 A up to 40 °C)
Factory preset	12 VDC
Adjustment accuracy	< 1 %
Residual ripple	25 mV (peak-to-peak) typ.
Current limitation	1.1 x I_o typ.
Overload behavior	Constant current
Operational indication	Green LED (V_o)
Signaling	1 x active signal output 12 VDC, 40 mA
Efficiency/Power losses:	
Efficiency	82 % typ.
Power loss P_V	< 0.7 W (230 VAC, no load);
	5.3 W (230 VAC, nominal load)
Max. power loss P_V	5.7 W typ. (100 VAC / 12 VDC, 2 A)
Fuse protection:	
Internal fuse	T 2 A / 250 V
External fuse	Circuit breakers 6 A, 10 A, 16 A,
	B or C characteristic;
	An external DC fuse is required for the DC
	input voltage

Technical Data

Environmental Requirements:	
Ambient operating temperature	-25 °C ... +70 °C;
	Device start at -40 °C (type-tested)
Storage temperature	-25 °C ... +85 °C
Relative humidity	30 % ... 85 % (no condensation permissible)
Derating	-3 %/K (> 50 °C)
Degree of pollution	2 (acc. to EN 50178)
Climatic category	3K3 (acc. to EN 60721)
Safety and protection:	
Test voltage pri. - sec.	4.2 kV DC
Protection class	II
Degree of protection	IP20 (acc. to EN 60529)
Overvoltage protection	Varistor (input side);
	internal protective circuit,
	< 35 VDC (output side in case of an error)
Short circuit protection	yes
No-load proof	yes
Feedback voltage	max. 25 VDC
Parallel operation	yes
Series connection	yes
MTBF	> 500,000 h (acc. to IEC 61709)
Connection and type of mounting:	
Wire connection	Input/Output/Signaling:
	WAGO 721 Series
Cross sections	Input/Output/Signaling:
	0.08 mm² ... 2.5 mm² / AWG 28 ... 12
Strip lengths	Input/Output/Signaling:
	8 ... 9 mm / 0.31 ... 0.35 in
Type of mounting	DIN-rail mount (EN 60715)
Dimensions and weight:	
Dimensions (mm) W x H x L	22.5 x 90 x 107.5
	Length from upper-edge of DIN 35 rail
Weight	128 g
Standards and approvals:	
Standards/Specifications	EN 60950-1, EN 61204-3, EN 60335-1,
	UL 60950-1, UL 508, GL *
	(* pending)

Switched-Mode Power Supply, 1-Phase

***EPSITRON*® CLASSIC Power**

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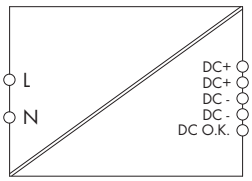

- Primary switch mode power supply unit
- Protection class II
- Natural convection cooling when horizontally mounted
- Enclosed for use in switchgear cabinets
- Bounce-free switching signal (DC OK)
- Suitable for both parallel and series operation
- Electrically isolated output voltage (SELV) acc. to EN 60950-1/UL 60950-1

Description	Item No.	Pack. Unit
Switched-mode power supply, 12 VDC / 4 A	**787-1611**	1

Technical Data

Input:	
Nominal input voltage $V_{i\ nom}$	100 ... 240 VAC
Input voltage range	85 ... 264 VAC; 120 V ... 372 VDC
Input voltage derating	-2.5 % (< 95 VAC)
Frequency	47 Hz ... 63 Hz; 0 Hz
Input current I_i	0.41 A (240 VAC);
	0.83 A (100 VAC)
Inrush current	< 30 A
Mains failure hold-up time	120 ms (230 VAC);
	15 ms (100 VAC)
Output:	
Nominal output voltage $V_{o\ nom}$	12 VDC (SELV)
Output voltage range	11.5 ... 14.5 VDC adjustable
Output current I_o	4 A at 12 VDC (4.2 A up to 40 °C)
Factory preset	12 VDC
Adjustment accuracy	< 1 %
Residual ripple	30 mV (peak-to-peak) typ.
Current limitation	1.1 x I_o typ.
Overload behavior	Constant current
Operational indication	Green LED (V_o)
Signaling	1 x active signal output 12 VDC, 40 mA
Efficiency/Power losses:	
Efficiency	86 % typ.
Power loss P_V	< 1 W (230 VAC, no load);
	8 W (230 VAC, nominal load)
Max. power loss P_V	9.1 W typ. (100 VAC / 12 VDC, 4 A)
Fuse protection:	
Internal fuse	T 4 A / 250 V
External fuse	Circuit breakers 6 A, 10 A, 16 A,
	B or C characteristic;
	An external DC fuse is required for the DC
	input voltage

Technical Data

Environmental Requirements:	
Ambient operating temperature	-25 °C ... +70 °C;
	Device start at -40 °C (type-tested)
Storage temperature	-25 °C ... +85 °C
Relative humidity	30 % ... 85 % (no condensation permissible)
Derating	-3 %/K (> 50 °C)
Degree of pollution	2 (acc. to EN 50178)
Climatic category	3K3 (acc. to EN 60721)
Safety and protection:	
Test voltage pri. - sec.	4.2 kV DC
Protection class	II
Degree of protection	IP20 (acc. to EN 60529)
Overvoltage protection	Varistor (input side);
	internal protective circuit,
	< 35 VDC (output side in case of an error)
Short circuit protection	yes
No-load proof	yes
Feedback voltage	max. 25 VDC
Parallel operation	yes
Series connection	yes
MTBF	> 500,000 h (acc. to IEC 61709)
Connection and type of mounting:	
Wire connection	Input/Output/Signaling:
	WAGO 721 Series
Cross sections	Input/Output/Signaling:
	0.08 mm² ... 2.5 mm² / AWG 28 ... 12
Strip lengths	Input/Output/Signaling:
	8 ... 9 mm / 0.31 ... 0.35 in
Type of mounting	DIN-rail mount (EN 60715)
Dimensions and weight:	
Dimensions (mm) W x H x L	45 x 90 x 107.5
	Length from upper-edge of DIN 35 rail
Weight	210 g
Standards and approvals:	
Standards/Specifications	EN 60950-1, EN 61204-3, EN 60335-1,
	UL 60950-1, UL 508, GL *
	(* pending)

Switched-Mode Power Supply, 1-Phase

***EPSITRON*® CLASSIC Power**

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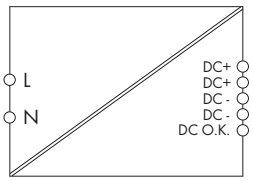

- Primary switch mode power supply unit
- Protection class II
- Natural convection cooling when horizontally mounted
- Enclosed for use in switchgear cabinets
- Bounce-free switching signal (DC OK)
- Suitable for both parallel and series operation
- Electrically isolated output voltage (SELV) acc. to EN 60950-1/UL 60950-1

Description	Item No.	Pack. Unit
Switched-mode power supply, 12 VDC / 7 A	**787-1621**	1

Technical Data

Input:	
Nominal input voltage $V_{i\ nom}$	100 ... 240 VAC
Input voltage range	85 ... 264 VAC; 120 V ... 372 VDC
Input voltage derating	-2.5 % (< 95 VAC)
Frequency	47 Hz ... 63 Hz; 0 Hz
Input current I_i	0.7 A (240 VAC);
	1.5 A (100 VAC)
Inrush current	< 30 A
Mains failure hold-up time	100 ms (230 VAC);
	15 ms (100 VAC)
Output:	
Nominal output voltage $V_{o\ nom}$	12 VDC (SELV)
Output voltage range	11.5 ... 14.5 VDC adjustable
Output current I_o	7 A at 12 VDC (7.5 A up to 40 °C)
Factory preset	12 VDC
Adjustment accuracy	< 1 %
Residual ripple	50 mV (peak-to-peak) typ.
Current limitation	1.1 x I_o typ.
Overload behavior	Constant current
Operational indication	Green LED (V_o)
Signaling	1 x active signal output 12 VDC, 40 mA
Efficiency/Power losses:	
Efficiency	85 % typ.
Power loss P_V	< 0.6 W (230 VAC, no load);
	15.2 W (230 VAC, nominal load)
Max. power loss P_V	16.4 W typ. (100 VAC / 12 VDC, 7 A)
Fuse protection:	
Internal fuse	T 4 A / 250 V
External fuse	Circuit breakers 6 A, 10 A, 16 A,
	B or C characteristic;
	An external DC fuse is required for the DC
	input voltage

Technical Data

Environmental Requirements:	
Ambient operating temperature	-25 °C ... +70 °C;
	Device start at -40 °C (type-tested)
Storage temperature	-25 °C ... +85 °C
Relative humidity	30 % ... 85 % (no condensation permissible)
Derating	-3 %/K (> 50 °C)
Degree of pollution	2 (acc. to EN 50178)
Climatic category	3K3 (acc. to EN 60721)
Safety and protection:	
Test voltage pri. - sec.	4.2 kV DC
Protection class	II
Degree of protection	IP20 (acc. to EN 60529)
Overvoltage protection	Varistor (input side);
	internal protective circuit,
	< 32 VDC (output side in case of an error)
Short circuit protection	yes
No-load proof	yes
Feedback voltage	max. 25 VDC
Parallel operation	yes
Series connection	yes
MTBF	> 500,000 h (acc. to IEC 61709)
Connection and type of mounting:	
Wire connection	Input/Output/Signaling:
	WAGO 721 Series
Cross sections	Input/Output/Signaling:
	0.08 mm² ... 2.5 mm² / AWG 28 ... 12
Strip lengths	Input/Output/Signaling:
	8 ... 9 mm / 0.31 ... 0.35 in
Type of mounting	DIN-rail mount (EN 60715)
Dimensions and weight:	
Dimensions (mm) W x H x L	52 x 90 x 119
	Length from upper-edge of DIN 35 rail
Weight	384 g
Standards and approvals:	
Standards/Specifications	EN 60950-1, EN 61204-3, EN 60335-1,
	UL 60950-1, UL 508, GL *
	(* pending)

Switched-Mode Power Supply, 1-Phase

***EPSITRON*® CLASSIC Power**

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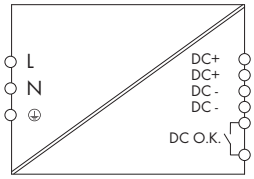

- Primary switch mode power supply unit
- Suitable for protection class I equipment
- Natural convection cooling when horizontally mounted
- Enclosed for use in switchgear cabinets
- Integrated TopBoost, enabling secondary-side protection via wire breakers
- DC OK contact
- Suitable for both parallel and series operation
- Electrically isolated output voltage (SELV) acc. to EN 60950-1/UL 60950-1

Description	Item No.	Pack. Unit
Switched-mode power supply, 12 VDC / 15 A	**787-1631**	1

Technical Data

Input:	
Nominal input voltage $V_{i\,nom}$	100 ... 240 VAC
Input voltage range	85 ... 264 VAC; 120 V ... 372 VDC
Input voltage derating	-2.5 % (< 100 VAC)
Frequency	47 Hz ... 63 Hz; 0 Hz
Input current I_i	0.95 A (240 VAC);
	2.07 A (100 VAC)
Discharge current	< 1 mA
Inrush current	< 30 A
Mains failure hold-up time	28 ms (230 VAC);
	28 ms (100 VAC)
Output:	
Nominal output voltage $V_{o\,nom}$	12 VDC (SELV)
Output voltage range	11.5 ... 14.5 VDC adjustable
Output current I_o	15 A at 12 VDC
Factory preset	12 VDC
Adjustment accuracy	< 1 %
Residual ripple	35 mV (peak-to-peak) typ.
Current limitation	1.1 x I_o typ.
Overload behavior	Constant current
Operational indication	Green LED (V_o)
Signaling	DC O.K. contact;
	(Make contact, max. 30 V AC/DC, 1 A)
Efficiency/Power losses:	
Efficiency	90 % typ.
Power loss P_V	4.4 W (230 VAC, no load);
	21.8 W (230 VAC, nominal load)
Max. power loss P_V	24.7 W typ. (100 VAC / 12 VDC, 15 A)
Fuse protection:	
Internal fuse	T 6.3 A / 250 V
External fuse	Circuit breakers 10 A, 16 A,
	B or C characteristic;
	An external DC fuse is required for the DC
	input voltage

Technical Data

Environmental Requirements:	
Ambient operating temperature	-25 °C ... +70 °C;
	Device start at -40 °C (type-tested)
Storage temperature	-25 °C ... +85 °C
Relative humidity	30 % ... 85 % (no condensation permissible)
Derating	-5 %/K (>60° C, 196 ... 264 VAC);
	-2.5 %/K (>50° C, 85 ... 195 VAC)
Degree of pollution	2 (acc. to EN 50178)
Climatic category	3K3 (acc. to EN 60721)
Safety and protection:	
Test voltage PRI-SEC/PRI-GND/SEC-GND	4.2 kV DC kV / 2.2 kV DC kV / 0.7 kV DC
Protection class	Prepared for class I equipment
Degree of protection	IP20 (acc. to EN 60529)
Overvoltage protection	Varistor (input side);
	internal protective circuit,
	< 20 VDC (output side in case of an error)
Short circuit protection	yes
No-load proof	yes
Feedback voltage	max. 25 VDC
Parallel operation	yes
Series connection	yes
MTBF	> 500,000 h (acc. to IEC 61709)
Connection and type of mounting:	
Wire connection	Input/Output/Signaling:
	WAGO 721 Series
Cross sections	Input/Output/Signaling:
	0.08 mm² ... 2.5 mm² / AWG 28 ... 12
Strip lengths	Input/Output/Signaling:
	8 ... 9 mm / 0.31 ... 0.35 in
Type of mounting	DIN-rail mount (EN 60715)
Dimensions and weight:	
Dimensions (mm) W x H x L	55 x 127 x 172
	Length from upper-edge of DIN 35 rail
Weight	930 g
Standards and approvals:	
Standards/Specifications	EN 60950-1, EN 61204-3,
	UL 60950-1, UL 508, GL *
	(* pending)

Switched-Mode Power Supply, 1-Phase

***EPSITRON*® CLASSIC Power**

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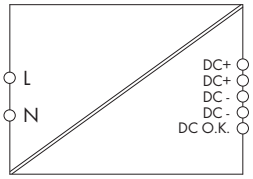

- Primary switch mode power supply unit
- Protection class II
- Natural convection cooling when horizontally mounted
- Enclosed for use in switchgear cabinets
- Bounce-free switching signal (DC OK)
- Suitable for both parallel and series operation
- Electrically isolated output voltage (SELV) acc. to EN 60950-1/UL 60950-1

Description	Item No.	Pack. Unit
Switched-mode power supply, 24 VDC/ 1 A	**787-1602**	1

Technical Data

Input:	
Nominal input voltage $V_{i\,nom}$	100 ... 240 VAC
Input voltage range	85 ... 264 VAC; 120 V ... 372 VDC
Input voltage derating	-2.5 % (< 95 VAC)
Frequency	47 Hz ... 63 Hz; 0 Hz
Input current I_i	0.2 A (240 VAC);
	0.43 A (100 VAC)
Inrush current	< 30 A
Mains failure hold-up time	120 ms (230 VAC);
	20 ms (100 VAC)
Output:	
Nominal output voltage $V_{o\,nom}$	24 VDC (SELV)
Output voltage range	23 ... 28.5 VDC adjustable
Output current I_o	1 A at 24 VDC (1.2 A up to 40 °C)
Factory preset	24 VDC
Adjustment accuracy	< 1 %
Residual ripple	20 mV (peak-to-peak) typ.
Current limitation	1.1 x I_o typ.
Overload behavior	Constant current
Operational indication	Green LED (V_o)
Signaling	1 x active signal output 24 VDC, 20 mA
Efficiency/Power losses:	
Efficiency	86 % typ.
Power loss P_V	< 1 W (230 VAC, no load);
	3.9 W (230 VAC, nominal load)
Max. power loss P_V	4.2 W typ. (100 VAC / 24 VDC, 1 A)
Fuse protection:	
Internal fuse	T 2 A / 250 V
External fuse	Circuit breakers 6 A, 10 A, 16 A,
	B or C characteristic;
	An external DC fuse is required for the DC
	input voltage

Technical Data

Environmental Requirements:	
Ambient operating temperature	-25 °C ... +70 °C;
	Device start at -40 °C (type-tested)
Storage temperature	-25 °C ... +85 °C
Relative humidity	30 % ... 85 % (no condensation permissible)
Derating	-3 %/K (> 50 °C)
Degree of pollution	2 (acc. to EN 50178)
Climatic category	3K3 (acc. to EN 60721)
Safety and protection:	
Test voltage pri. - sec.	4.2 kV DC
Protection class	II
Degree of protection	IP20 (acc. to EN 60529)
Overvoltage protection	Varistor (input side);
	internal protective circuit,
	< 39 VDC (output side in case of an error)
Short circuit protection	yes
No-load proof	yes
Feedback voltage	max. 35 VDC
Parallel operation	yes
Series connection	yes
MTBF	> 500,000 h (acc. to IEC 61709)
Connection and type of mounting:	
Wire connection	Input/Output/Signaling:
	WAGO 721 Series
Cross sections	Input/Output/Signaling:
	0.08 mm² ... 2.5 mm² / AWG 28 ... 12
Strip lengths	Input/Output/Signaling:
	8 ... 9 mm / 0.31 ... 0.35 in
Type of mounting	DIN-rail mount (EN 60715)
Dimensions and weight:	
Dimensions (mm) W x H x L	22.5 x 90 x 107.5
	Length from upper-edge of DIN 35 rail
Weight	128 g
Standards and approvals:	
Standards/Specifications	EN 60950-1, EN 61204-3, EN 60335-1,
	UL 60950-1, UL 508, GL *
	(* pending)

Switched-Mode Power Supply, 1-Phase

***EPSITRON*® CLASSIC Power**

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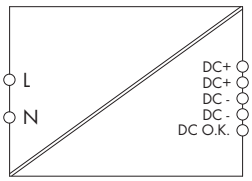

- Primary switch mode power supply unit
- Protection class II
- Natural convection cooling when horizontally mounted
- Enclosed for use in switchgear cabinets
- Bounce-free switching signal (DC OK)
- Suitable for both parallel and series operation
- Electrically isolated output voltage (SELV) acc. to EN 60950-1/UL 60950-1

Description	Item No.	Pack. Unit
Switched-mode power supply, 24 VDC / 2 A	**787-1606**	1

Technical Data

Input:	
Nominal input voltage $V_{i\ nom}$	100 ... 240 VAC
Input voltage range	85 ... 264 VAC; 120 V ... 372 VDC
Input voltage derating	-2.5 % (< 95 VAC)
Frequency	47 Hz ... 63 Hz; 0 Hz
Input current I_i	0.37 A (240 VAC);
	0.73 A (100 VAC)
Inrush current	< 30 A
Mains failure hold-up time	120 ms (230 VAC);
	20 ms (100 VAC)
Output:	
Nominal output voltage $V_{o\ nom}$	24 VDC (SELV)
Output voltage range	23 ... 28.5 VDC adjustable
Output current I_o	2 A at 24 VDC (2.2 A up to 40 °C)
Factory preset	24 VDC
Adjustment accuracy	< 1 %
Residual ripple	20 mV (peak-to-peak) typ.
Current limitation	1.1 x I_o typ.
Overload behavior	Constant current
Operational indication	Green LED (V_o)
Signaling	1 x active signal output 24 VDC, 20 mA
Efficiency/Power losses:	
Efficiency	89 % typ.
Power loss P_V	< 1 W (230 VAC, no load);
	6 W (230 VAC, nominal load)
Max. power loss P_V	6.6 W typ. (100 VAC / 24 VDC, 2 A)
Fuse protection:	
Internal fuse	T 4 A / 250 V
External fuse	Circuit breakers 6 A, 10 A, 16 A,
	B or C characteristic;
	An external DC fuse is required for the DC
	input voltage

Technical Data

Environmental Requirements:	
Ambient operating temperature	-25 °C ... +70 °C;
	Device start at -40 °C (type-tested)
Storage temperature	-25 °C ... +85 °C
Relative humidity	30 % ... 85 % (no condensation permissible)
Derating	-3 %/K (> 50 °C)
Degree of pollution	2 (acc. to EN 50178)
Climatic category	3K3 (acc. to EN 60721)
Safety and protection:	
Test voltage pri. - sec.	4.2 kV DC
Protection class	II
Degree of protection	IP20 (acc. to EN 60529)
Overvoltage protection	Varistor (input side);
	internal protective circuit,
	< 37 VDC (output side in case of an error)
Short circuit protection	yes
No-load proof	yes
Feedback voltage	max. 35 VDC
Parallel operation	yes
Series connection	yes
MTBF	> 500,000 h (acc. to IEC 61709)
Connection and type of mounting:	
Wire connection	Input/Output/Signaling:
	WAGO 721 Series
Cross sections	Input/Output/Signaling:
	0.08 mm² ... 2.5 mm² / AWG 28 ... 12
Strip lengths	Input/Output/Signaling:
	8 ... 9 mm / 0.31 ... 0.35 in
Type of mounting	DIN-rail mount (EN 60715)
Dimensions and weight:	
Dimensions (mm) W x H x L	45 x 90 x 107.5
	Length from upper-edge of DIN 35 rail
Weight	210 g
Standards and approvals:	
Standards/Specifications	EN 60950-1, EN 61204-3, EN 60335-1,
	UL 60950-1, UL 508, GL *
	(* pending)

Switched-Mode Power Supply, 1-Phase

***EPSITRON*® CLASSIC Power**

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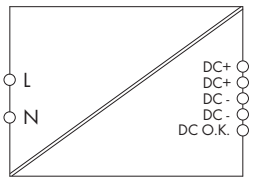

- Primary switch mode power supply unit
- Protection class II
- Natural convection cooling when horizontally mounted
- Enclosed for use in switchgear cabinets
- Bounce-free switching signal (DC OK)
- Suitable for both parallel and series operation
- Electrically isolated output voltage (SELV) acc. to EN 60950-1/UL 60950-1

Description	Item No.	Pack. Unit
Switched-mode power supply, 24 VDC / 4 A	**787-1616**	1

Technical Data

Input:	
Nominal input voltage $V_{i\,nom}$	100 ... 240 VAC
Input voltage range	85 ... 264 VAC; 120 V ... 372 VDC
Input voltage derating	-2.5 % (< 95 VAC)
Frequency	47 Hz ... 63 Hz; 0 Hz
Input current I_i	0.66 A (240 VAC);
	1.52 A (100 VAC)
Inrush current	< 30 A
Mains failure hold-up time	80 ms (230 VAC);
	15 ms (100 VAC)
Output:	
Nominal output voltage $V_{o\,nom}$	24 VDC (SELV)
Output voltage range	23 ... 28.5 VDC adjustable
Output current I_o	4 A at 24 VDC (4.2 A up to 40 °C)
Factory preset	24 VDC
Adjustment accuracy	< 1 %
Residual ripple	20 mV (peak-to-peak) typ.
Current limitation	1.1 x I_o typ.
Overload behavior	Constant current
Operational indication	Green LED (V_o)
Signaling	1 x active signal output 24 VDC, 20 mA
Efficiency/Power losses:	
Efficiency	89 % typ.
Power loss P_V	< 1 W (230 VAC, no load);
	12.4 W (230 VAC, nominal load)
Max. power loss P_V	15 W typ. (100 VAC / 24 VDC, 4 A)
Fuse protection:	
Internal fuse	T 4 A / 250 V
External fuse	Circuit breakers 6 A, 10 A, 16 A,
	B or C characteristic;
	An external DC fuse is required for the DC
	input voltage

Technical Data

Environmental Requirements:	
Ambient operating temperature	-25 °C ... +70 °C;
	Device start at -40 °C (type-tested)
Storage temperature	-25 °C ... +85 °C
Relative humidity	30 % ... 85 % (no condensation permissible)
Derating	-3 %/K (> 50 °C)
Degree of pollution	2 (acc. to EN 50178)
Climatic category	3K3 (acc. to EN 60721)
Safety and protection:	
Test voltage pri. - sec.	4.2 kV DC
Protection class	II
Degree of protection	IP20 (acc. to EN 60529)
Overvoltage protection	Varistor (input side);
	internal protective circuit,
	< 40 VDC (output side in case of an error)
Short circuit protection	yes
No-load proof	yes
Feedback voltage	max. 35 VDC
Parallel operation	yes
Series connection	yes
MTBF	> 500,000 h (acc. to IEC 61709)
Connection and type of mounting:	
Wire connection	Input/Output/Signaling:
	WAGO 721 Series
Cross sections	Input/Output/Signaling:
	0.08 mm² ... 2.5 mm² / AWG 28 ... 12
Strip lengths	Input/Output/Signaling:
	8 ... 9 mm / 0.31 ... 0.35 in
Type of mounting	DIN-rail mount (EN 60715)
Dimensions and weight:	
Dimensions (mm) W x H x L	52 x 90 x 119
	Length from upper-edge of DIN 35 rail
Weight	384 g
Standards and approvals:	
Standards/Specifications	EN 60950-1, EN 61204-3, EN 60335-1,
	UL 60950-1, UL 508, GL *
	(* pending)

Switched-Mode Power Supply, 1-Phase

***EPSITRON*® CLASSIC Power**

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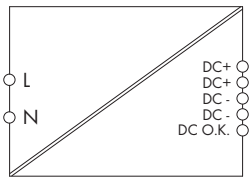

- Primary switch mode power supply unit
- Protection class II
- Natural convection cooling when horizontally mounted
- Enclosed for use in switchgear cabinets
- Limited Power Source (LPS) acc. to NEC Class 2
- Bounce-free switching signal (DC OK)
- Suitable for both parallel and series operation
- Electrically isolated output voltage (SELV) acc. to EN 60950-1/UL 60950-1

Description	Item No.	Pack. Unit
Switched-mode power supply, 24 VDC / 3.8 A LPS	**787-1616/000-1000**	1

Technical Data

Input:	
Nominal input voltage $V_{i\ nom}$	100 ... 240 VAC
Input voltage range	85 ... 264 VAC; 120 V ... 372 VDC
Input voltage derating	-2.5 % (< 95 VAC)
Frequency	47 Hz ... 63 Hz; 0 Hz
Input current I_i	0.7 A (240 VAC);
	1.8 A (100 VAC)
Inrush current	< 30 A
Mains failure hold-up time	80 ms (230 VAC);
	15 ms (100 VAC)
Output:	
Nominal output voltage $V_{o\ nom}$	24 VDC (SELV)
Output voltage range	23 ... 28.5 VDC adjustable
Output current I_o	3.8 A at 24 VDC
Factory preset	24 VDC
Adjustment accuracy	< 1 %
Residual ripple	20 mV (peak-to-peak) typ.
Current limitation	3.8 A (3.2 A at V_o > 25 VDC),
	LPS acc. to NEC Class 2
Overload behavior	Constant current
Operational indication	Green LED (V_o)
Signaling	1 x active signal output 24 VDC, 20 mA
Efficiency/Power losses:	
Efficiency	87 % typ.
Power loss P_V	2.8 W (230 VAC, no load);
	14 W (230 VAC, nominal load)
Max. power loss P_V	< 20 W (100 VAC / 91 W)
Fuse protection:	
Internal fuse	T 4 A / 250 V
External fuse	Circuit breakers 6 A, 10 A, 16 A,
	B or C characteristic;
	An external DC fuse is required for the DC
	input voltage

Technical Data

Environmental Requirements:	
Ambient operating temperature	-25 °C ... +70 °C;
	Device start at -40 °C (type-tested)
Storage temperature	-25 °C ... +85 °C
Relative humidity	30 % ... 85 % (no condensation permissible)
Derating	-3 %/K (> 50 °C)
Degree of pollution	2 (acc. to EN 50178)
Climatic category	3K3 (acc. to EN 60721)
Safety and protection:	
Test voltage pri. - sec.	4.2 kV DC
Protection class	II
Degree of protection	IP20 (acc. to EN 60529)
Overvoltage protection	Varistor (input side);
	internal protective circuit,
	< 40 VDC (output side in case of an error)
Short circuit protection	yes
No-load proof	yes
Feedback voltage	max. 35 VDC
Parallel operation	yes
Series connection	yes
MTBF	> 500,000 h (acc. to IEC 61709)
Connection and type of mounting:	
Wire connection	Input/Output/Signaling:
	WAGO 721 Series
Cross sections	Input/Output/Signaling:
	0.08 mm² ... 2.5 mm² / AWG 28 ... 12
Strip lengths	Input/Output/Signaling:
	8 ... 9 mm / 0.31 ... 0.35 in
Type of mounting	DIN-rail mount (EN 60715)
Dimensions and weight:	
Dimensions (mm) W x H x L	52 x 90 x 119
	Length from upper-edge of DIN 35 rail
Weight	384 g
Standards and approvals:	
Standards/Specifications	EN 60950-1, EN 61204-3, EN 60335-1,
	UL 60950-1, UL 508, UL 1310, GL *
	(* pending)

Switched-Mode Power Supply, 1-Phase

***EPSITRON*® CLASSIC Power**

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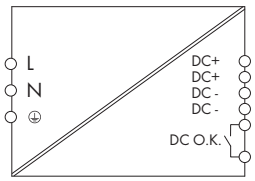


- Primary switch mode power supply unit
- Suitable for protection class I equipment
- Natural convection cooling when horizontally mounted
- Enclosed for use in switchgear cabinets
- Integrated TopBoost, enabling secondary-side protection via wire breakers
- DC OK contact
- Suitable for both parallel and series operation
- Electrically isolated output voltage (SELV) acc. to EN 60950-1/UL 60950-1

Description	Item No.	Pack. Unit
Switched-mode power supply, 24 VDC / 5 A	**787-1622**	1

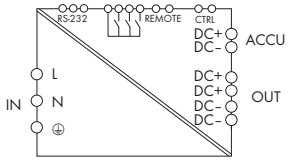
Technical Data

Input:	
Nominal input voltage $V_{i\,nom}$	100 ... 240 VAC
Input voltage range	85 ... 264 VAC; 120 V ... 372 VDC
Input voltage derating	-2.5 % (< 97 VAC)
Frequency	47 Hz ... 63 Hz; 0 Hz
Input current I_i	1.2 A (240 VAC);
	2.25 A (100 VAC)
Discharge current	< 1 mA
Inrush current	< 30 A
Mains failure hold-up time	80 ms (230 VAC);
	10 ms (100 VAC)
Output:	
Nominal output voltage $V_{o\,nom}$	24 VDC (SELV)
Output voltage range	23 ... 28.5 VDC adjustable
Output current I_o	5 A at 24 VDC
Factory preset	24 VDC
Adjustment accuracy	< 1 %
Residual ripple	30 mV (peak-to-peak) typ.
Current limitation	1.1 x I_o typ.
Overload behavior	Constant current
Operational indication	Green LED (V_o)
Signaling	DC O.K. contact;
	(Make contact, max. 30 V AC/DC, 1 A)
Efficiency/Power losses:	
Efficiency	89 % typ.
Power loss P_V	1.2 W (230 VAC, no load);
	14.6 W (230 VAC, nominal load)
Max. power loss P_V	19.4 W typ. (100 VAC / 24 VDC, 5 A)
Fuse protection:	
Internal fuse	T 4 A / 250 V
External fuse	Circuit breakers 6 A, 10 A, 16 A,
	B or C characteristic;
	An external DC fuse is required for the DC
	input voltage

Technical Data

Environmental Requirements:	
Ambient operating temperature	-25 °C ... +70 °C;
	Device start at -40 °C (type-tested)
Storage temperature	-25 °C ... +85 °C
Relative humidity	30 % ... 85 % (no condensation permissible)
Derating	-5 %/K (>60° C, 196 ... 264 VAC);
	-2.5 %/K (>50° C, 85 ... 195 VAC)
Degree of pollution	2 (acc. to EN 50178)
Climatic category	3K3 (acc. to EN 60721)
Safety and protection:	
Test voltage PRI-SEC/PRI-GND/SEC-GND	4.2 kV DC kV / 2.2 kV DC kV / 0.7 kV DC
Protection class	Prepared for class I equipment
Degree of protection	IP20 (acc. to EN 60529)
Overvoltage protection	Varistor (input side);
	internal protective circuit,
	< 41 VDC (output side in case of an error)
Short circuit protection	yes
No-load proof	yes
Feedback voltage	max. 35 VDC
Parallel operation	yes
Series connection	yes
MTBF	> 500,000 h (acc. to IEC 61709)
Connection and type of mounting:	
Wire connection	Input/Output/Signaling:
	WAGO 721 Series
Cross sections	Input/Output/Signaling:
	0.08 mm² ... 2.5 mm² / AWG 28 ... 12
Strip lengths	Input/Output/Signaling:
	8 ... 9 mm / 0.31 ... 0.35 in
Type of mounting	DIN-rail mount (EN 60715)
Dimensions and weight:	
Dimensions (mm) W x H x L	42 x 127 x 137.5
	Length from upper-edge of DIN 35 rail
Weight	590 g
Standards and approvals:	
Standards/Specifications	EN 60950-1, EN 61204-3, EN 60335-1,
	UL 60950-1, UL 508, GL *
	(* pending)

Switched-Mode Power Supply with Integrated UPS Charger and Controller *EPSITRON®*



- Primary switch mode power supply with integrated charger and controller for uninterruptible power supply (UPS)
- Battery control technology for smooth charging and predictive maintenance applications
- Potential-free contacts provide function monitoring
- Buffer time can be set on-site via rotary switch
- Parameter setting and monitoring via RS-232 interface
- Prepared for class I equipment
- Natural convection cooling when horizontally mounted
- Enclosed for use in switchgear cabinets
- Electrically isolated output voltage (SELV) acc. to EN 60950-1/UL 60950

Description	Item No.	Pack. Unit
Switched-Mode Power Supply, with Integrated UPS Charger and Controller, 24VDC / 5A	**787-1675**	1

Technical Data

Input:	
Nominal input voltage Vi nom	100 ... 240 VAC; 110 ... 370 VDC
Input voltage range	85 ... 264 VAC
Frequency	45 ... 65 Hz; 0 Hz
Input current Ii	1,1 A at 230 VAC and 5 ADC
Discharge current	1 mA typ.
Inrush current	< 30 A
Output:	
Nominal output voltage Vo nom	24 VDC (SELV)
Output voltage range	23.0 ... 28.5 VDC (mains operation)
	18.5 ... 27.5 VDC (battery operation)
Output current Io	5 A
Adjustment accuracy	1 %
Residual ripple	< 100 mV (peak-peak)
Current limitation	1.1 x Io; TopBoost approx. 24 A
Buffer time	0.5 ...20 min, IPC mode or constant (adjustable)
Switch-on threshold (adjustable)	22 VDC (pre-configured),
	20 ... 25.5 VDC (configurable via
	software)
Final load voltage	26 ... 29.5 VDC temperature-controlled
	(fixed or adjustable)
Charging current	0.3 A ... 0.6 A
Recommended battery modules	787-876, 787-871, 787-872, 787-873
Operational indication	Green LED (DC OK), yellow LED (battery
	mode), red LED (warning/fault)
Signaling	3 x 24 VDC signal output, 25 mA and
	1 x 30 VDC isolated relay contact, 1 A
Remote input	to switch off buffer operation
LineMonitor, parameter setting	via RS-232 serial interface
Efficiency / power losses:	
Efficiency	89 % typ.
Power loss P_V	5.2 W (battery operation, 24 VDC, 5 A) /
	17 W (mains operation,
	230 VAC/24 VDC, 5 A)
Fuse protection:	
Internal fuse	T 4 A / 250 V (input side)
External fuse	Circuit breakers 6 A, 10 A, 16 A,
	characteristic: B or C;
	An external DC fuse is required for the DC
	input voltage

Technical Data

Environmental requirements:	
Ambient operating temperature	-25 °C ... +70 °C;
	Device start at -40 °C (type-tested)
Storage temperature	-25 °C ... +85 °C
Derating	-3 % / K (> +50 °C)
Degree of pollution	2 (acc. to EN 50178)
Climatic category	3K3 (acc. to EN 60721)
Safety and protection:	
Test voltage	
pri.-sec./pri.-gr./sec.-gr.	4.2 kV DC / 2.2 kV DC / 0.7 kV DC
Protection class	I
Reverse voltage protection	yes
Degree of protection	IP20 (acc. to EN 60529)
Feedback voltage	max. 35 VDC
Parallel operation	yes, max. 3 battery modules for buffer time
	extension
Connection and type of mounting:	
Wire connection	Input/Output/Signals:
	WAGO 721 Series
	Interface: WAGO 733 Series
Cross sections	Input/Output/Signals: 0
	.5 mm² ... 10 mm² / AWG 20 ... 10
	Interface:
	0.08 mm² ... 2.5 mm² / AWG 28 ... 12
Strip lengths	Input/Output/Signals:
	13 ... 15 mm / 0.55 in
	Interface: 8 ... 9 mm / 0.33 in
Line length	≤ 3 m (Output, Battery Control)
Type of mounting	DIN-rail mount (EN 60715)
Dimensions and weight:	
Dimensions (mm) W x H x L	60 x 127 x 135.5
	Length from upper-edge of DIN 35 rail
Weight	885 g
Standards and approvals:	
Standards/Specifications	EN 60950, UL 60950, UL 508,
	EN 61204-3, GL *
	(* pending)

Switched-Mode Power Supply, 1-Phase

***EPSITRON*® CLASSIC Power**

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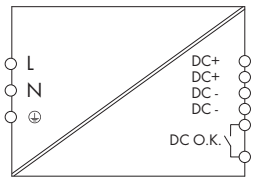

- Primary switch mode power supply unit
- Suitable for protection class I equipment
- Natural convection cooling when horizontally mounted
- Enclosed for use in switchgear cabinets
- Integrated TopBoost, enabling secondary-side protection via wire breakers
- DC OK contact
- Suitable for both parallel and series operation
- Electrically isolated output voltage (SELV) acc. to EN 60950-1/UL 60950-1

Description	Item No.	Pack. Unit
Switched-mode power supply, 24 VDC / 10 A	**787-1632**	1

Technical Data

Input:	
Nominal input voltage $V_{i\,nom}$	100 ... 240 VAC
Input voltage range	85 ... 264 VAC; 120 V ... 372 VDC
Input voltage derating	-2.5 % (< 100 VAC)
Frequency	47 Hz ... 63 Hz; 0 Hz
Input current I_i	1.25 A (240 VAC);
	2.74 A (100 VAC)
Discharge current	< 1 mA
Inrush current	< 30 A
Mains failure hold-up time	17 ms (230 VAC);
	15 ms (100 VAC)
Output:	
Nominal output voltage $V_{o\,nom}$	24 VDC (SELV)
Output voltage range	23 ... 28.5 VDC adjustable
Output current I_o	10 A at 24 VDC
Factory preset	24 VDC
Adjustment accuracy	< 1 %
Residual ripple	50 mV (peak-to-peak) typ.
Current limitation	1.1 x I_o typ.
Overload behavior	Constant current
Operational indication	Green LED (V_o)
Signaling	DC O.K. contact;
	(Make contact, max. 30 V AC/DC, 1 A)
Efficiency/Power losses:	
Efficiency	91 % typ.
Power loss P_V	6.6 W (230 VAC, no load);
	24.4 W (230 VAC, nominal load)
Max. power loss P_V	31.3 W typ. (100 VAC / 24 VDC, 10 A)
Fuse protection:	
Internal fuse	T 6.3 A / 250 V
External fuse	Circuit breakers 10 A, 16 A,
	B or C characteristic;
	An external DC fuse is required for the DC
	input voltage

Technical Data

Environmental Requirements:	
Ambient operating temperature	-25 °C ... +70 °C;
	Device start at -40 °C (type-tested)
Storage temperature	-25 °C ... +85 °C
Relative humidity	30 % ... 85 % (no condensation permissible)
Derating	-5 %/K (>60° C, 196 ... 264 VAC);
	-2.5 %/K (>50° C, 85 ... 195 VAC)
Degree of pollution	2 (acc. to EN 50178)
Climatic category	3K3 (acc. to EN 60721)
Safety and protection:	
Test voltage PRI-SEC/PRI-GND/SEC-GND	4.2 kV DC kV / 2.2 kV DC kV / 0.7 kV DC
Protection class	Prepared for class I equipment
Degree of protection	IP20 (acc. to EN 60529)
Overvoltage protection	Varistor (input side);
	internal protective circuit,
	< 40 VDC (output side in case of an error)
Short circuit protection	yes
No-load proof	yes
Feedback voltage	max. 35 VDC
Parallel operation	yes
Series connection	yes
MTBF	> 500,000 h (acc. to IEC 61709)
Connection and type of mounting:	
Wire connection	Input/Output/Signaling:
	WAGO 721 Series
Cross sections	Input/Output/Signaling:
	0.08 mm² ... 2.5 mm² / AWG 28 ... 12
Strip lengths	Input/Output/Signaling:
	8 ... 9 mm / 0.31 ... 0.35 in
Type of mounting	DIN-rail mount (EN 60715)
Dimensions and weight:	
Dimensions (mm) W x H x L	55 x 127 x 172
	Length from upper-edge of DIN 35 rail
Weight	930 g
Standards and approvals:	
Standards/Specifications	EN 60950-1, EN 61204-3,
	UL 60950-1, UL 508, GL *
	(* pending)

Switched-Mode Power Supply, 1-Phase

***EPSITRON*® CLASSIC Power**

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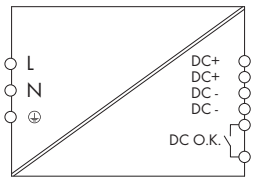

- Primary switch mode power supply unit
- Suitable for protection class I equipment
- Natural convection cooling when horizontally mounted
- Enclosed for use in switchgear cabinets
- Integrated TopBoost, enabling secondary-side protection via wire breakers
- DC OK contact
- Suitable for both parallel and series operation
- Electrically isolated output voltage (SELV) acc. to EN 60950-1/UL 60950-1

Description	Item No.	Pack. Unit
Switched-mode power supply, 24 VDC / 20 A	**787-1634**	1

Technical Data

Input:	
Nominal input voltage $V_{i\,nom}$	100 ... 240 VAC
Input voltage range	85 ... 264 VAC; 120 V ... 372 VDC
Input voltage derating	-1.8 % (< 105 VAC)
Frequency	47 Hz ... 63 Hz; 0 Hz
Input current I_i	2.23 A (240 VAC);
	5.56 A (100 VAC)
Discharge current	< 1 mA
Inrush current	< 30 A
Mains failure hold-up time	20 ms (230 VAC);
	20 ms (100 VAC)
Output:	
Nominal output voltage $V_{o\,nom}$	24 VDC (SELV)
Output voltage range	23 ... 28.5 VDC adjustable
Output current I_o	20 A at 24 VDC
Factory preset	24 VDC
Adjustment accuracy	< 1 %
Residual ripple	70 mV (peak-to-peak) typ.
Current limitation	1.1 x I_o typ.
Overload behavior	Constant current
Operational indication	Green LED (V_o)
Signaling	DC O.K. contact;
	(Make contact, max. 30 V AC/DC, 1 A)
Efficiency/Power losses:	
Efficiency	92 % typ.
Power loss P_V	7.0 W (230 VAC, no load);
	40.8 W (230 VAC, nominal load)
Max. power loss P_V	68.3 W typ. (100 VAC / 24 VDC, 20 A)
Fuse protection:	
Internal fuse	T 10 A / 250 V
External fuse	Circuit breakers 10 A, 16 A,
	B or C characteristic;
	An external DC fuse is required for the DC
	input voltage

Technical Data

Environmental Requirements:	
Ambient operating temperature	-25 °C ... +70 °C;
	Device start at -40 °C (type-tested)
Storage temperature	-25 °C ... +85 °C
Relative humidity	30 % ... 85 % (no condensation permissible)
Derating	-5 %/K (>60° C, 196 ... 264 VAC);
	-2.5 %/K (>50° C, 85 ... 195 VAC)
Degree of pollution	2 (acc. to EN 50178)
Climatic category	3K3 (acc. to EN 60721)
Safety and protection:	
Test voltage PRI-SEC/PRI-GND/SEC-GND	4.2 kV DC kV / 2.2 kV DC kV / 0.7 kV DC
Protection class	Prepared for class I equipment
Degree of protection	IP20 (acc. to EN 60529)
Overvoltage protection	Varistor (input side);
	internal protective circuit,
	< 40 VDC (output side in case of an error)
Short circuit protection	yes
No-load proof	yes
Feedback voltage	max. 35 VDC
Parallel operation	yes
Series connection	yes
MTBF	> 500,000 h (acc. to IEC 61709)
Connection and type of mounting:	
Wire connection	Input/Signaling: WAGO 721 Series
	Output: WAGO 831 Series
Cross sections	Input/Signaling:
	0.08 mm² ... 2.5 mm² / AWG 28 ... 12
	Output: 0.5 mm² ... 10 mm² / AWG 20 ... 8
Strip lengths	Input/Signaling:
	8 ... 9 mm / 0.31 ... 0.35 in
	Output: 13 ... 15 mm / 0.51 ... 0.59 in
Type of mounting	DIN-rail mount (EN 60715)
Dimensions and weight:	
Dimensions (mm) W x H x L	95 x 127 x 170
	Length from upper-edge of DIN 35 rail
Weight	1600 g
Standards and approvals:	
Standards/Specifications	EN 60950-1, EN 61204-3,
	UL 60950-1, UL 508, GL *
	(* pending)

Switched-Mode Power Supply, 1-Phase

***EPSITRON*® CLASSIC Power**

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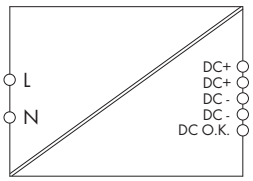

- Primary switch mode power supply unit
- Protection class II
- Natural convection cooling when horizontally mounted
- Enclosed for use in switchgear cabinets
- Bounce-free switching signal (DC OK)
- Suitable for both parallel and series operation
- Electrically isolated output voltage (SELV) acc. to EN 60950-1/UL 60950-1

Description	Item No.	Pack. Unit
Switched-mode power supply, 48 VDC / 2 A	**787-1623**	1

Technical Data

Input:	
Nominal input voltage $V_{i\ nom}$	100 ... 240 VAC
Input voltage range	85 ... 264 VAC; 120 V ... 372 VDC
Input voltage derating	-2.5 % (< 95 VAC)
Frequency	47 Hz ... 63 Hz; 0 Hz
Input current I_i	0.9 A (240 VAC);
	1.78 A (100 VAC)
Inrush current	< 30 A
Mains failure hold-up time	80 ms (230 VAC);
	15 ms (100 VAC)
Output:	
Nominal output voltage $V_{o\ nom}$	48 VDC (SELV)
Output voltage range	40 ... 56 VDC adjustable
Output current I_o	2 A at 48 VDC (2.1 A up to 40 °C)
Factory preset	48 VDC
Adjustment accuracy	< 1 %
Residual ripple	20 mV (peak-to-peak) typ.
Current limitation	1.1 x I_o typ.
Overload behavior	Constant current
Operational indication	Green LED (V_o)
Signaling	1 x active signal output 48 VDC, 10 mA
Efficiency/Power losses:	
Efficiency	86 % typ.
Power loss P_V	< 1 W (230 VAC, no load);
	16.2 W (230 VAC, nominal load)
Max. power loss P_V	19.8 W typ. (100 VAC / 48 VDC, 2 A)
Fuse protection:	
Internal fuse	T 4 A / 250 V
External fuse	Circuit breakers 6 A, 10 A, 16 A,
	B or C characteristic;
	An external DC fuse is required for the DC
	input voltage

Technical Data

Environmental Requirements:	
Ambient operating temperature	-25 °C ... +70 °C;
	Device start at -40 °C (type-tested)
Storage temperature	-25 °C ... +85 °C
Relative humidity	30 % ... 85 % (no condensation permissible)
Derating	-3 %/K (> 50 °C)
Degree of pollution	2 (acc. to EN 50178)
Climatic category	3K3 (acc. to EN 60721)
Safety and protection:	
Test voltage pri. - sec.	4.2 kV DC
Protection class	II
Degree of protection	IP20 (acc. to EN 60529)
Overvoltage protection	Varistor (input side);
	internal protective circuit,
	< 60 VDC (output side in case of an error)
Short circuit protection	yes
No-load proof	yes
Feedback voltage	max. 63 VDC
Parallel operation	yes
Series connection	yes
MTBF	> 500,000 h (acc. to IEC 61709)
Connection and type of mounting:	
Wire connection	Input/Output/Signaling:
	WAGO 721 Series
Cross sections	Input/Output/Signaling:
	0.08 mm² ... 2.5 mm² / AWG 28 ... 12
Strip lengths	Input/Output/Signaling:
	8 ... 9 mm / 0.31 ... 0.35 in
Type of mounting	DIN-rail mount (EN 60715)
Dimensions and weight:	
Dimensions (mm) W x H x L	52 x 90 x 119
	Length from upper-edge of DIN 35 rail
Weight	385 g
Standards and approvals:	
Standards/Specifications	EN 60950-1, EN 61204-3, EN 60335-1,
	UL 60950-1, UL 508, GL *
	(* pending)

Switched-Mode Power Supply, 1-Phase

***EPSITRON*® CLASSIC Power**

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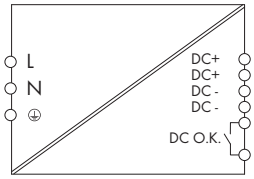

- Primary switch mode power supply unit
- Suitable for protection class I equipment
- Natural convection cooling when horizontally mounted
- Enclosed for use in switchgear cabinets
- Integrated TopBoost, enabling secondary-side protection via wire breakers
- DC OK contact
- Suitable for both parallel and series operation
- Electrically isolated output voltage (SELV) acc. to EN 60950-1/UL 60950-1

Description	Item No.	Pack. Unit
Switched-mode power supply, 48 VDC / 5 A	**787-1633**	1

Technical Data

Input:	
Nominal input voltage $V_{i\,nom}$	100 ... 240 VAC
Input voltage range	85 ... 264 VAC; 120 V ... 372 VDC
Input voltage derating	-2.5 % (< 100 VAC)
Frequency	47 Hz ... 63 Hz; 0 Hz
Input current I_i	1.19 A (240 VAC);
	2.68 A (100 VAC)
Discharge current	< 1 mA
Inrush current	< 30 A
Mains failure hold-up time	21 ms (230 VAC);
	21 ms (100 VAC)
Output:	
Nominal output voltage $V_{o\,nom}$	48 VDC (SELV)
Output voltage range	40 ... 56 VDC adjustable
Output current I_o	5 A at 48 VDC
Factory preset	48 VDC
Adjustment accuracy	< 1 %
Residual ripple	30 mV (peak-to-peak) typ.
Current limitation	1.11.1 x I_o typ.
Overload behavior	Constant current
Operational indication	Green LED (V_o)
Signaling	DC O.K. contact;
	(Make contact, max. 30 V AC/DC, 1 A)
Efficiency/Power losses:	
Efficiency	92 % typ.
Power loss P_V	7 W (230 VAC, no load);
	40.8 W (230 VAC, nominal load)
Max. power loss P_V	26.5 W typ. (100 VAC / 48 VDC, 5 A)
Fuse protection:	
Internal fuse	T 6.3 A / 250 V
External fuse	Circuit breakers 10 A, 16 A,
	B or C characteristic;
	An external DC fuse is required for the DC
	input voltage

Technical Data

Environmental Requirements:	
Ambient operating temperature	-25 °C ... +70 °C;
	Device start at -40 °C (type-tested)
Storage temperature	-25 °C ... +85 °C
Relative humidity	30 % ... 85 % (no condensation permissible)
Derating	-5 %/K (>60° C, 196 ... 264 VAC);
	-2.5 %/K (>50° C, 85 ... 195 VAC)
Degree of pollution	2 (acc. to EN 50178)
Climatic category	3K3 (acc. to EN 60721)
Safety and protection:	
Test voltage PRI-SEC/PRI-GND/SEC-GND	4.2 kV DC kV / 2.2 kV DC kV / 0.7 kV DC
Protection class	Prepared for class I equipment
Degree of protection	IP20 (acc. to EN 60529)
Overvoltage protection	Varistor (input side);
	internal protective circuit,
	< 60 VDC (output side in case of an error)
Short circuit protection	yes
No-load proof	yes
Feedback voltage	max. 63 VDC
Parallel operation	yes
Series connection	yes
MTBF	> 500,000 h (acc. to IEC 61709)
Connection and type of mounting:	
Wire connection	Input/Output/Signaling:
	WAGO 721 Series
Cross sections	Input/Output/Signaling:
	0.08 mm² ... 2.5 mm² / AWG 28 ... 12
Strip lengths	Input/Output/Signaling:
	8 ... 9 mm / 0.31 ... 0.35 in
Type of mounting	DIN-rail mount (EN 60715)
Dimensions and weight:	
Dimensions (mm) W x H x L	55 x 127 x 172
	Length from upper-edge of DIN 35 rail
Weight	930 g
Standards and approvals:	
Standards/Specifications	EN 60950-1, EN 61204-3,
	UL 60950-1, UL 508, GL *
	(* pending)

Switched-Mode Power Supply, 1-Phase

***EPSITRON*® CLASSIC Power**

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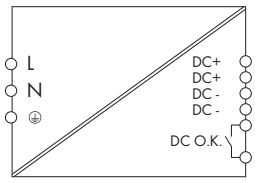


- Primary switch mode power supply unit
- Suitable for protection class I equipment
- Natural convection cooling when horizontally mounted
- Enclosed for use in switchgear cabinets
- Integrated TopBoost, enabling secondary-side protection via wire breakers
- DC OK contact
- Suitable for both parallel and series operation
- Electrically isolated output voltage (SELV) acc. to EN 60950-1/UL 60950-1

Description	Item No.	Pack. Unit
Switched-mode power supply, 48 VDC / 10 A	**787-1635**	1

Technical Data

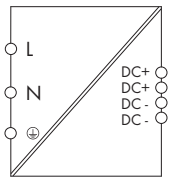
Input:	
Nominal input voltage $V_{i\,nom}$	100 ... 240 VAC
Input voltage range	85 ... 264 VAC; 120 V ... 372 VDC
Input voltage derating	-2.5 % (< 100 VAC)
Frequency	47 Hz ... 63 Hz; 0 Hz
Input current I_i	2.22 A (240 VAC);
	5.15 A (100 VAC)
Discharge current	< 1 mA
Inrush current	< 30 A
Mains failure hold-up time	20 ms (230 VAC);
	20 ms (100 VAC)
Output:	
Nominal output voltage $V_{o\,nom}$	48 VDC (SELV)
Output voltage range	40 ... 56 VDC adjustable
Output current I_o	10 A at 48 VDC
Factory preset	48 VDC
Adjustment accuracy	< 1 %
Residual ripple	80 mV (peak-to-peak) typ.
Current limitation	1.1 x I_o typ.
Overload behavior	Constant current
Operational indication	Green LED (V_o)
Signaling	DC O.K. contact;
	(Make contact, max. 30 V AC/DC, 1 A)
Efficiency/Power losses:	
Efficiency	93 % typ.
Power loss P_V	11.7 W (230 VAC, no load);
	36.3 W (230 VAC, nominal load)
Max. power loss P_V	64.9 W typ. (100 VAC / 48 VDC, 10 A)
Fuse protection:	
Internal fuse	T 10 A / 250 V
External fuse	Circuit breakers 10 A, 16 A,
	B or C characteristic;
	An external DC fuse is required for the DC
	input voltage

Technical Data

Environmental Requirements:	
Ambient operating temperature	-25 °C ... +70 °C;
	Device start at -40 °C (type-tested)
Storage temperature	-25 °C ... +85 °C
Relative humidity	30 % ... 85 % (no condensation permissible)
Derating	-5 %/K (>60° C, 196 ... 264 VAC);
	-2.5 %/K (>50° C, 85 ... 195 VAC)
Degree of pollution	2 (acc. to EN 50178)
Climatic category	3K3 (acc. to EN 60721)
Safety and protection:	
Test voltage PRI-SEC/PRI-GND/SEC-GND	4.2 kV DC kV / 2.2 kV DC kV / 0.7 kV DC
Protection class	Prepared for class I equipment
Degree of protection	IP20 (acc. to EN 60529)
Overvoltage protection	Varistor (input side);
	internal protective circuit,
	< 60 VDC (output side in case of an error)
Short circuit protection	yes
No-load proof	yes
Feedback voltage	max. 63 VDC
Parallel operation	yes
Series connection	yes
MTBF	> 500,000 h (acc. to IEC 61709)
Connection and type of mounting:	
Wire connection	Input/Signaling: WAGO 721 Series
	Output: WAGO 831 Series
Cross sections	Input/Signaling:
	0.08 mm² ... 2.5 mm² / AWG 28 ... 12
	Output: 0.5 mm² ... 10 mm² / AWG 20 ... 8
Strip lengths	Input/Signaling:
	8 ... 9 mm / 0.31 ... 0.35 in
	Output: 13 ... 15 mm / 0.51 ... 0.59 in
Type of mounting	DIN-rail mount (EN 60715)
Dimensions and weight:	
Dimensions (mm) W x H x L	95 x 127 x 170
	Length from upper-edge of DIN 35 rail
Weight	1600 g
Standards and approvals:	
Standards/Specifications	EN 60950-1, EN 61204-3,
	UL 60950-1, UL 508, GL *
	(* pending)

Switched-Mode Power Supply, 1-Phase

***EPSITRON*® ECO Power**



- Primary switch mode power supply unit
- Prepared for class I equipment
- Natural convection cooling when horizontally mounted
- Enclosed for use in switchgear cabinets
- Parallel operation, series connection possible
- Electrically isolated output voltage (SELV) acc. to EN 60950-1/UL 60950

Description	Item No.	Pack. Unit
Switched-Mode Power Supply, 24 VDC / 2.5 A	**787-712**	1

Technical Data

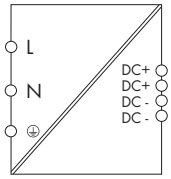
Input:	
Nominal input voltage Vi nom	110 ... 240 VAC
Input voltage range	85 ... 264 VAC; 130 ... 373 VDC
Frequency	47 - 63 Hz
Input current Ii	0.7 A typ. at 230 VAC;
	1.2 A at 115 VAC
Discharge current	< 1 mA
Inrush current	< 30 A
Mains failure hold-up time	> 20 ms at 230 VAC
Output:	
Nominal output voltage Vo nom	24 VDC (SELV)
Output voltage range	22 ... 28 VDC adjustable
Output current Io	2.5 A at 24 V DC
Factory preset	24 VDC
Adjustment accuracy	1%
Residual ripple	< 100 mV (peak-to-peak) to 20 MHz
Overload behavior	Constant power (in overload range:
	1.15 ... 1.4 x Ia); shutdown and automatic
	restart in the event of a short circuit
Operational indication	LED green (24 V DC o.k.),
	LED red (overload)
Efficiency / power losses:	
Efficiency	82 % typ.
Power loss P_V	8.3 W (at 230 VAC and 2.5 ADC)
Max. power loss P_V	11.5 W (at 110 VAC and 2.75 ADC)
Fuse protection:	
Internal fuse	F 2.5 A / 250 V
External fuse	Circuit breakers 10 A, 16 A,
	characteristic: B or C
	An external DC fuse is required for the DC
	input voltage

Technical Data

Environmental requirements:	
Ambient operating temperature	-10 °C ... +70°C
Storage temperature	-25 °C ... +85 °C
Rel. humidity	95 % (no condensation)
Derating	-3.3 % / K (> 55 °C at 230 VAC)
Degree of pollution	2 (acc. to EN 50178)
Climatic category	3K3 (acc. to EN 60721)
Safety and protection:	
Test voltage pri.-sec./ pri.-gr. / sec.-gr.	3 kV AC / 1.5 kV AC / 0.5 kV AC
Protection class	Prepared for class I equipment
Degree of protection	IP20 acc. to EN 60529
Overvoltage protection	via varistor at primary circuit
Short circuit protection	yes
No-load proof	yes
Feedback voltage	28 VDC
Parallel operation	yes
Series connection	yes
MTBF	480000 h (acc. IEC 61709)
Connection and type of mounting:	
Wire connection	CAGE CLAMP® (WAGO 745 Series)
Cross sections	0.08 ... 4 mm² / AWG 28 ... 12
	(THHN, THWN)
Strip lengths	8 ... 9 mm / 0.33 in
Type of mounting	DIN-rail mount (EN 60715)
Dimensions and weight:	
Dimensions (mm) W x H x L	50 x 92 x 136
	Height from upper-edge of DIN 35 rail
Weight	596 g
Standards and approvals:	
Standards/Specifications	EN 60950, EN 61000-6-2,
	EN 61000-6-3, UL 60950, UL 508,
	ANSI/ISA 12.12.01 (Class I Div.2),
	ATEX, IEC Ex

Switched-Mode Power Supply, 1-Phase

***EPSITRON*® ECO Power**



- Primary switch mode power supply unit
- Prepared for class I equipment
- Natural convection cooling when horizontally mounted
- Enclosed for use in switchgear cabinets
- Parallel operation, series connection possible
- Electrically isolated output voltage (SELV) acc. to EN 60950-1/UL 60950

Description	Item No.	Pack. Unit
Switched-Mode Power Supply, 24 VDC / 5 A	**787-722**	1

Technical Data

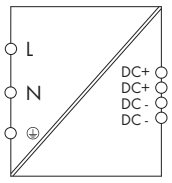
Input:	
Nominal input voltage Vi nom	110 ... 240 VAC
Input voltage range	85 ... 264 VAC; 130 ... 373 VDC
Frequency	47 - 63 Hz
Input current Ii	1.0 A typ. at 230 VAC;
	2.0 A at 115 VAC
Discharge current	< 3.5mA
Inrush current	< 30 A
Mains failure hold-up time	> 20 ms at 230 VAC
Output:	
Nominal output voltage Vo nom	24 VDC (SELV)
Output voltage range	22 ... 28 VDC adjustable
Output current Io	5 A at 24 V DC
Factory preset	24 VDC
Adjustment accuracy	1%
Residual ripple	< 100 mV (peak-to-peak) to 20 MHz
Overload behavior	Constant power (in overload range:
	1.15 ... 1.4 x Ia); shutdown and automatic
	restart in the event of a short circuit
Operational indication	LED green (24 V DC o.k.),
	LED red (overload)
Efficiency / power losses:	
Efficiency	82 % typ.
Power loss P_V	19.5 W (at 230 VAC and 5 ADC)
Max. power loss P_V	23.5 W (at 110 VAC and 5.5 ADC)
Fuse protection:	
Internal fuse	F 3.15 A / 250 V
External fuse	Circuit breakers 10 A, 16 A,
	characteristic: B or C
	An external DC fuse is required for the DC
	input voltage

Technical Data

Environmental requirements:	
Ambient operating temperature	-10 °C ... +60 °C
Storage temperature	-25 °C ... +85 °C
Rel. humidity	95 % (no condensation)
Derating	-5.33 % / K (> 45 °C at 230 VAC)
Degree of pollution	2 (acc. to EN 50178)
Climatic category	3K3 (acc. to EN 60721)
Safety and protection:	
Test voltage pri.-sec./ pri.-gr. / sec.-gr.	3 kV AC / 1.5 kV AC / 0.5 kV AC
Protection class	Prepared for class I equipment
Degree of protection	IP20 acc. to EN 60529
Overvoltage protection	via varistor at primary circuit
Short circuit protection	yes
No-load proof	yes
Feedback voltage	28 VDC
Parallel operation	yes
Series connection	yes
MTBF	480000 h (acc. IEC 61709)
Connection and type of mounting:	
Wire connection	CAGE CLAMP® (WAGO 745 Series)
Cross sections	0.08 mm² ... 4 mm² / AWG 28 ... 12
	(THHN, THWN)
Strip lengths	8 ... 9 mm / 0.33 in
Type of mounting	DIN-rail mount (EN 60715)
Dimensions and weight:	
Dimensions (mm) W x H x L	75 x 92 x 136
	Height from upper-edge of DIN 35 rail
Weight	850 g
Standards and approvals:	
Standards/Specifications	EN 60950, EN 61000-6-2,
	EN 61000-6-3, UL 60950, UL 508,
	ANSI/ISA 12.12.01 (Class I Div.2),
	ATEX, IEC Ex

Switched-Mode Power Supply, 1-Phase

***EPSITRON*® ECO Power**



- Primary switch mode power supply unit
- Prepared for class I equipment
- Natural convection cooling when horizontally mounted
- Enclosed for use in switchgear cabinets
- Parallel operation, series connection possible
- Electrically isolated output voltage (SELV) acc. to EN 60950-1/UL 60950

Description	Item No.	Pack. Unit
Switched-Mode Power Supply, 24 VDC / 10 A	**787-732**	1

Technical Data

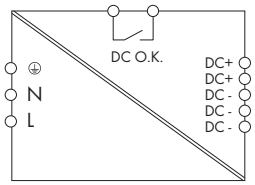
Input:	
Nominal input voltage Vi nom	110 ... 240 VAC
Input voltage range	85 ... 264 VAC; 130 ... 373 VDC
Frequency	47 Hz ... 63 Hz
Input current Ii	1.5 A typ. at 230 VAC;
	3.0 A at 115 VAC
Discharge current	< 3.5mA
Inrush current	< 30 A
Mains failure hold-up time	> 20 ms at 230 VAC
Output:	
Nominal output voltage Vo nom	24 VDC (SELV)
Output voltage range	22 ... 28 VDC adjustable
Output current Io	10 A at 24 V DC
Factory preset	24 VDC
Adjustment accuracy	1%
Residual ripple	< 100 mV (peak-to-peak) to 20 MHz
Overload behavior	Constant power (in overload range:
	1.15 ... 1.4 x Ia); shutdown and automatic
	restart in the event of a short circuit
Operational indication	LED green (24 V DC o.k.),
	LED red (overload)
Efficiency / power losses:	
Efficiency	82 % typ.
Power loss P_V	37.5 W (at 230 VAC and 10 ADC)
Max. power loss P_V	53 W (at 110 VAC and 11 ADC)
Fuse protection:	
Internal fuse	F 5 A / 250 V
External fuse	Circuit breakers 10 A, 16 A,
	characteristic: B or C
	An external DC fuse is required for the DC
	input voltage

Technical Data

Environmental requirements:	
Ambient operating temperature	-10 °C ... +70°C
Storage temperature	-25 °C ... +85 °C
Rel. humidity	95 % (no condensation)
Derating	-2.33 % / K (> 55 °C at 230 VAC)
Degree of pollution	2 (acc. to EN 50178)
Climatic category	3K3 (acc. to EN 60721)
Safety and protection:	
Test voltage pri.-sec./ pri.-gr. / sec.-gr.	3 kV AC / 1.5 kV AC / 0.5 kV AC
Protection class	Prepared for class I equipment
Degree of protection	IP20 acc. to EN 60529
Overvoltage protection	via varistor at primary circuit
Short circuit protection	yes
No-load proof	yes
Feedback voltage	28 VDC
Parallel operation	yes
Series connection	yes
MTBF	480000 h (acc. IEC 61709)
Connection and type of mounting:	
Wire connection	CAGE CLAMP® (WAGO 745 Series)
Cross sections	0.08 mm² ... 4 mm² / AWG 28 ... 12
	(THHN, THWN)
Strip lengths	8 ... 9 mm / 0.33 in
Type of mounting	DIN-rail mount (EN 60715)
Dimensions and weight:	
Dimensions (mm) W x H x L	110 x 92 x 136
	Height from upper-edge of DIN 35 rail
Weight	1200 g
Standards and approvals:	
Standards/Specifications	EN 60950, EN 61000-6-2,
	EN 61000-6-3, UL 60950, UL 508,
	ANSI/ISA 12.12.01 (Class I Div.2),
	ATEX, IEC Ex

Switched-Mode Power Supply, 1-Phase

***EPSITRON*® ECO Power**



- Prepared for class I equipment
- Natural convection cooling when horizontally mounted
- Enclosed for use in switchgear cabinets
- Fast and tool-free termination via lever-actuated terminal blocks
- Bounce-free switching contact (DC OK)
- Parallel operation
- Electrically isolated output voltage (SELV) acc. to EN / UL 60950-1

Description	Item No.	Pack. Unit
Switched-mode power supply, 24 VDC / 20 A	**787-734**	1

Technical Data

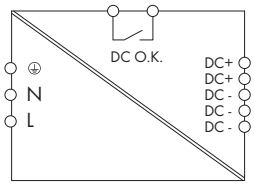
Input:	
Nominal input voltage $V_{i\,nom}$	100 ... 240 VAC
Input voltage range	85 ... 264 VAC; 130 ... 373 VDC
Frequency	47 Hz ... 63 Hz
Input current Ii	3 A typ. at 230 VAC;
	6.0 A at 115 VAC
Discharge current	1.7 mA
Inrush current	< 30 A
Mains failure hold-up time	> 20 ms at 230 VAC
Output:	
Nominal output voltage $V_{o\,nom}$	24 VDC (SELV)
Output voltage range	22 ... 28 VDC adjustable
Output current I_o	20 A at 24 VDC
Factory preset	24 VDC
Adjustment accuracy	1 %
Residual ripple	< 100 mV (peak-peak)
Overload behavior	Constant power
	(in overload range: 1.15 ... 1.4 x I_o);
	shutdown and automatic restart in the event
	of a short circuit
Operational indication	LED green (24 V DC o.k.),
	LED red (overload)
Efficiency/Power losses:	
Efficiency	90 % typ.
Power loss P_V	65 W (230 VAC / nominal load)
Max. power loss P_V	107 W typ. (110 VAC / 24 VDC, 23 A)
Fuse protection:	
Internal fuse	16 AT / 250 V
External fuse	Circuit breakers 10 A, 16 A,
	characteristic: B or C
	An external DC fuse is required for the DC
	input voltage

Technical Data

Environmental requirements:	
Ambient operating temperature	-25 °C ... +70 °C
Storage temperature	-25 °C ... +85 °C
Rel. humidity	95 % (no condensation)
Derating	see instruction manual
Degree of pollution	2 (acc. to EN 50178)
Climatic category	3K3 (acc. to EN 60721)
Safety and protection:	
Test voltage	
PRI-SEC/PRI-GND/SEC-GND	3 kV AC / 1.5 kV AC / 0.5 kV AC
Protection class	Prepared for class I equipment
Degree of protection	IP20 (acc. to EN 60529)
Overvoltage protection	via varistor at primary circuit
Short circuit protection	yes
No-load proof	yes
Feedback voltage	29 VDC
Parallel operation	yes
Series connection	yes
MTBF	> 250000 h
Connection and type of mounting:	
Wire connection	Input/Signalising: WAGO 2706 Series
	Output: WAGO 2716 Series
Cross sections	Input/Signalising:
	0.5 mm² ... 6 mm² / AWG 20 ... 10
	Output:
	1.5 mm² ... 16 mm² / AWG 16 ... 6
Strip lengths	Input/Signalising: 11 ... 12 mm / 0.45 in
	Output: 12 ... 13 mm / 0.47 in
Type of mounting	DIN-rail mount (EN 60715)
Dimensions and weight:	
Dimensions (mm) W x H x L	115 x 136 x 144
	Length from upper-edge of DIN 35 rail
Weight	2120 g
Standards and approvals:	
Standards/Specifications	EN 60950 (SELV), EN 61000-6-2,
	EN 61000-6-3
	UL 60950, UL 508* (* pending)

Switched-Mode Power Supply, 1-Phase

***EPSITRON*® ECO Power**



- Prepared for class I equipment
- Natural convection cooling when horizontally mounted
- Enclosed for use in switchgear cabinets
- Fast and tool-free termination via lever-actuated terminal blocks
- Bounce-free switching contact (DC OK)
- Parallel operation
- Electrically isolated output voltage (SELV) acc. to EN / UL 60950-1

Description	Item No.	Pack. Unit
Switched-mode power supply, 24 VDC / 40 A	**787-736**	1

Technical Data

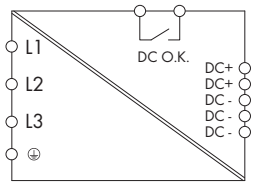
Input:	
Nominal input voltage $V_{i\,nom}$	100 ... 240 VAC
Input voltage range	90 ... 264 VAC; 130 ... 373 VDC
Frequency	47 Hz ... 63 Hz
Input current Ii	< 6 A at 230 VAC;
	< 12 A at 115 VAC
Discharge current	< 3.5 mA
Inrush current	< 30 A at 230 VAC;
	< 25 A at 115 VAC
Mains failure hold-up time	> 17 ms at AC 230 V / nominal load
Power factor	> 0.94 at 230 VAC
	> 0.98 at 115 VAC
Output:	
Nominal output voltage $V_{o\,nom}$	24 VDC (SELV)
Output voltage range	22 ... 28 VDC adjustable
Output current I_o	40 A at 24 VDC
Factory preset	24 VDC
Adjustment accuracy	1 %
Residual ripple	< 100 mV (peak-peak)
Overload behavior	Constant power
	(in overload range: 1.15 ... 1.4 x I_o);
	shutdown and automatic restart in the event
	of a short circuit
Operational indication	LED green (24 V DC o.k.),
	LED red (overload)
Signaling	Contact DC o.k.;
	make contact (max. 31.2 V / 20 mA)
Efficiency/Power losses:	
Efficiency	90 % typ.
Power loss P_V	107 W at AC 230 V / nominal load
Fuse protection:	
Internal fuse	T 20 A / 250 V
External fuse	Circuit breakers 13 A, 16 A, 20 A,
	characteristic: B or C
	An external DC fuse is required for the DC
	input voltage

Technical Data

Environmental requirements:	
Ambient operating temperature	-25 °C ... +70 °C
Storage temperature	-40 °C ... +85 °C
Rel. humidity	95 % (no condensation)
Derating	-2.66 % / K (> 55 °C);
	-2 % / V (Vi < 100 VAC)
Degree of pollution	2 (acc. to EN 50178)
Climatic category	3K3 (acc. to EN 60721)
Safety and protection:	
Test voltage PRI-SEC/PRI-GND/	3 kV AC / 1.5 kV AC /
SEC-GND/SEC-DC OK	0.5 kV AC / 0.5 kV AC
Protection class	Prepared for class I equipment
Degree of protection	IP20 (acc. to EN 60529)
Overvoltage protection	via varistor at primary circuit
Short circuit protection	yes
No-load proof	yes
Feedback voltage	29 VDC
Parallel operation	yes
Series connection	yes
MTBF	> 250000 h
Connection and type of mounting:	
Wire connection	Input/Signalising: WAGO 2706 Series
	Output: WAGO 2716 Series
Cross sections	Input/Signalising:
	0.5 mm² ... 6 mm² / AWG 20 ... 10
	Output:
	1.5 mm² ... 16 mm² / AWG 16 ... 6
Strip lengths	Input/Signalising:
	11 ... 12 mm / 0.43 ... 0.47 in
	Output: 12 ... 13 mm / 0.47 ... 0.51 in
Type of mounting	DIN-rail mount (EN 60715)
Dimensions and weight:	
Dimensions (mm) W x H x L	170 x 136 x 150
	Length from upper-edge of DIN 35 rail
Weight	3500 g
Standards and approvals:	
Standards/Specifications	EN 60950 (SELV)*, EN 61000-6-2*,
	EN 61000-6-3*, UL 60950*, UL 508*
	(* pending)

Switched-Mode Power Supply, 3-Phase

***EPSITRON*® ECO Power**



- Suitable for protection class I equipment
- Natural convection cooling when horizontally mounted
- Enclosed for use in switchgear cabinets
- Fast and tool-free termination via lever-actuated terminal blocks
- DC O.K. contact
- Parallel operation
- Electrically isolated output voltage (SELV) acc. to EN 60950-1/UL 60950-1

Description	Item No.	Pack. Unit
Switched-mode power supply, 24 VDC / 6.25 A	**787-738**	1

Technical Data

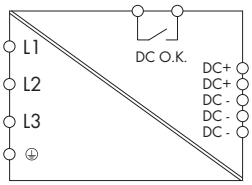
Input:	
Nominal input voltage $V_{i\,nom}$	3 x (2 x) 400 V ... 500 VAC
Input voltage range	325 V ... 575 VAC; 460 V ... 800 VDC
Frequency	47 Hz ... 63 Hz
Input current Ii	3 x 0.4 A at 400 VAC and 6.25 ADC
Power factor	≥ 0.6
Discharge current	< 3.5 mA
Inrush current	< 25 A
Mains failure hold-up time	> 17 ms at 3x 400 VAC
Output:	
Nominal output voltage $V_{o\,nom}$	24 VDC (SELV)
Output voltage range	22 ... 28 VDC adjustable
Output current I_o	6.25 A at 24 VDC
Factory preset	24 VDC
Adjustment accuracy	1 %
Residual ripple	< 80 mV (peak-to-peak)
Overload behavior	Constant power
	(in overload range: 1.15 ... 1.4 x I_o);
	shutdown and automatic restart in the event
	of a short circuit
Operational indication	Green LED (V_o)
	Red LED (overload)
Signaling	DC O.K. contact;
	Make contact (max. 31.2 V / 20 mA)
Efficiency/Power losses:	
Efficiency	87 % typ.
Power loss P_V	18.5 W
Max. power loss P_V	20 W
Fuse protection:	
Internal fuse	3 x T 2 A / 250 V
External fuse	3 x circuit breakers 10 A, 16 A,
	B or C characteristic,
	or motor circuit breakers
	External DC fuse required for DC input
	voltage
Environmental requirements:	
Ambient operating temperature	-25 °C ... +70 °C
Storage temperature	-40 °C ... +85 °C
Rel. humidity	95% (no condensation permissible)

Technical Data

Environmental requirements:	
Derating	-2.5 % / K (> +50 °C; 400 VAC)
Degree of pollution	2 (acc. to EN 50178)
Climatic category	3K3 (acc. to EN 60721)
Safety and protection:	
Test voltage PRI-SEC/PRI-GND/	3 kV AC / 1.5 kV AC /
SEC-GND/SEC-DC OK	0.5 kV AC / 0.5 kV AC
Protection class	Prepared for class I equipment
Degree of protection	IP20 (acc. to EN 60529)
Overvoltage protection	yes
Short circuit protection	yes
No-load proof	yes
Feedback voltage	30 V
Parallel operation	yes
Series connection	yes
MTBF	> 250000 h
Connection and type of mounting:	
Wire connection	Input/Output: WAGO 2706 Series
	Signaling: WAGO 2091 Series
Cross sections	Input/Output:
	0.5 mm² ... 6 mm² / AWG 20 ... 10
	Signaling:
	0.2 mm² ... 1.5 mm² / AWG 24 ... 14
Strip lengths	Input/Output:
	11 ... 12 mm / 0.43 ... 0.47 in
	Signaling: 8 ... 9 mm / 0.31 ... 0.35 in
Type of mounting	DIN-rail mount (EN 60715)
Dimensions and weight:	
Dimensions (mm) W x H x L	50 x 130 x 92
	Length from upper-edge of DIN 35 rail
Weight	3500 g
Standards and approvals:	
Standards/Specifications	EN 60950, EN 61204-3,
	UL 60950*, UL 508*
	(* pending)

Switched-Mode Power Supply, 3-Phase

***EPSITRON*® ECO Power**



- Suitable for protection class I equipment
- Natural convection cooling when horizontally mounted
- Enclosed for use in switchgear cabinets
- Fast and tool-free termination via lever-actuated terminal blocks
- DC O.K. contact
- Parallel operation
- Electrically isolated output voltage (SELV) acc. to EN 60950-1/UL 60950-1

Description	Item No.	Pack. Unit
Switched-mode power supply, 24 VDC / 10 A	**787-740**	1

Technical Data

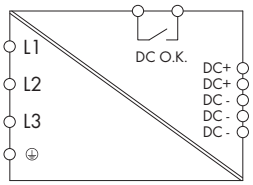
Input:	
Nominal input voltage $V_{i\,nom}$	3 x (2 x) 400 V ... 500 VAC
Input voltage range	325 V ... 575 VAC; 460 V ... 800 VDC
Frequency	47 Hz ... 63 Hz
Input current Ii	3 x 0.6 A at 400 VAC and 10 ADC
Power factor	≥ 0.6
Discharge current	< 3.5 mA
Inrush current	< 25 A
Mains failure hold-up time	> 17 ms at 3x 400 VAC
Output:	
Nominal output voltage $V_{o\,nom}$	24 VDC (SELV)
Output voltage range	22 ... 28 VDC adjustable
Output current I_o	10 A at 24 VDC
Factory preset	24 VDC
Adjustment accuracy	1 %
Residual ripple	< 80 mV (peak-to-peak)
Overload behavior	Constant power
	(in overload range: 1.15 ... 1.4 x I_o);
	shutdown and automatic restart in the event
	of a short circuit
Operational indication	Green LED (V_o)
	Red LED (overload)
Signaling	DC O.K. contact;
	Make contact (max. 31.2 V / 20 mA)
Efficiency/Power losses:	
Efficiency	89 % typ.
Power loss P_V	32.5 W
Max. power loss P_V	36 W
Fuse protection:	
Internal fuse	3 x T 2 A / 250 V
External fuse	3 x circuit breakers 10 A, 16 A,
	B or C characteristic,
	or motor circuit breakers
	External DC fuse required for DC input
	voltage
Environmental requirements:	
Ambient operating temperature	-25 °C ... +70 °C
Storage temperature	-40 °C ... +85 °C
Rel. humidity	95% (no condensation permissible)

Technical Data

Environmental requirements:	
Derating	-1.25 % / K (> +50 °C; 400 VAC)
Degree of pollution	2 (acc. to EN 50178)
Climatic category	3K3 (acc. to EN 60721)
Safety and protection:	
Test voltage PRI-SEC/PRI-GND/	3 kV AC / 1.5 kV AC /
SEC-GND/SEC-DC OK	0.5 kV AC / 0.5 kV AC
Protection class	Prepared for class I equipment
Degree of protection	IP20 (acc. to EN 60529)
Overvoltage protection	yes
Short circuit protection	yes
No-load proof	yes
Feedback voltage	30 V
Parallel operation	yes
Series connection	yes
MTBF	> 250000 h
Connection and type of mounting:	
Wire connection	Input/Output: WAGO 2706 Series
	Signaling: WAGO 2091 Series
Cross sections	Input/Output:
	0.5 mm² ... 6 mm² / AWG 20 ... 10
	Signaling:
	0.2 mm² ... 1.5 mm² / AWG 24 ... 14
Strip lengths	Input/Output:
	11 ... 12 mm / 0.43 ... 0.47 in
	Signaling: 8 ... 9 mm / 0.31 ... 0.35 in
Type of mounting	DIN-rail mount (EN 60715)
Dimensions and weight:	
Dimensions (mm) W x H x L	65 x 130 x 130
	Length from upper-edge of DIN 35 rail
Weight	2120 g
Standards and approvals:	
Standards/Specifications	EN 60950, EN 61204-3,
	UL 60950*, UL 508*
	(* pending)

Switched-Mode Power Supply, 3-Phase

***EPSITRON*® ECO Power**



- Suitable for protection class I equipment
- Natural convection cooling when horizontally mounted
- Enclosed for use in switchgear cabinets
- Fast and tool-free termination via lever-actuated terminal blocks
- DC O.K. contact
- Parallel operation
- Electrically isolated output voltage (SELV) acc. to EN 60950-1/UL 60950-1

Description	Item No.	Pack. Unit
Switched-mode power supply, 24 VDC / 20 A	**787-742**	1

Technical Data

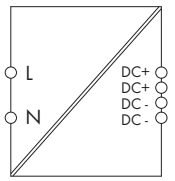
Input:	
Nominal input voltage $V_{i\ nom}$	3 x (2 x) 400 V ... 500 VAC
Input voltage range	325 V ... 575 VAC; 460 V ... 800 VDC
Frequency	47 Hz ... 63 Hz
Input current I_i	3 x 2.05 A at 400 VAC and 20 ADC
Power factor	≥ 0.6
Discharge current	< 3.5 mA
Inrush current	< 30 A
Mains failure hold-up time	> 17 ms at 3x 400 VAC
Output:	
Nominal output voltage $V_{o\ nom}$	24 VDC (SELV)
Output voltage range	22 ... 28 VDC adjustable
Output current I_o	20 A at 24 VDC
Factory preset	24 VDC
Adjustment accuracy	1 %
Residual ripple	< 80 mV (peak-to-peak)
Overload behavior	Constant power (in overload range: 1.15 ... 1.4 x I_o); shutdown and automatic restart in the event of a short circuit
Operational indication	Green LED (V_o), Red LED (overload)
Signaling	DC O.K. contact; Make contact (max. 31.2 V / 20 mA)
Efficiency/Power losses:	
Efficiency	90 % typ.
Power loss P_V	50 W
Max. power loss P_V	55 W
Fuse protection:	
Internal fuse	3 x T 5 A / 250 V
External fuse	3 x circuit breakers 10 A, 16 A, B or C characteristic, or motor circuit breakers External DC fuse required for DC input voltage
Environmental Requirements:	
Ambient operating temperature	-25 °C ... +70 °C
Storage temperature	-40 °C ... +85 °C
Rel. humidity	95% (no condensation permissible)

Technical Data

Environmental Requirements:	
Derating	-2 % / K (> +50 °C; 400 VAC)
Degree of pollution	2 (acc. to EN 50178)
Climatic category	3K3 (acc. to EN 60721)
Safety and protection:	
Test voltage PRI-SEC/PRI-GND/	3 kV AC / 1.5 kV AC /
SEC-GND/SEC-DC OK	0.5 kV AC / 0.5 kV AC
Protection class	Prepared for class I equipment
Degree of protection	IP20 (acc. to EN 60529)
Overvoltage protection	yes
Short circuit protection	yes
No-load proof	yes
Feedback voltage	30 V
Parallel operation	yes
Series connection	yes
MTBF	> 250000 h
Connection and type of mounting:	
Wire connection	Input/Output: WAGO 2706 Series Signaling: WAGO 2091 Series
Cross sections	Input/Output: 0.5 mm² ... 6 mm² / AWG 20 ... 10 Signaling: 0.2 mm² ... 1.5 mm² / AWG 24 ... 14
Strip lengths	Input/Output: 11 ... 12 mm / 0.43 ... 0.47 in Signaling: 8 ... 9 mm / 0.31 ... 0.35 in
Type of mounting	DIN-rail mount (EN 60715)
Dimensions and weight:	
Dimensions (mm) W x H x L	110 x 130 x 151 Length from upper-edge of DIN 35 rail
Weight	1930 g
Standards and approvals:	
Standards/Specifications	EN 60950, EN 61204-3, UL 60950*, UL 508* (* pending)

Switched-Mode Power Supply, 1-Phase

***EPSITRON*® COMPACT Power**



- Primary switch mode power supply unit
- Prepared for protection class II equipment
- Natural convection cooling when horizontally mounted
- Stepped profile, ideal for distribution boards or distribution boxes
- Parallel operation, series connection possible
- Electrically isolated output voltage (SELV) acc. to EN 60950-1/UL 60950-1

Description	Item No.	Pack. Unit
Switched-Mode Power Supply, 5 VDC / 5.5A	**787-1020**	1

Technical Data

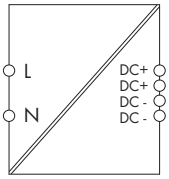
Input:	
Nominal input voltage $V_{i\,nom}$	100 ... 240 VAC
Input voltage range	85 ... 264 VAC; 120 ... 373 VDC
Frequency	44 Hz ... 66 Hz; 0 Hz
Input current I_i	0.6 A at 110 VAC;
	0.3 A at 230 VAC
Discharge current	1 mA typ.
Inrush current	< 30 A, NTC
Mains failure hold-up time	> 10 ms at 110 VAC;
	> 80 ms at 230 VAC
Output:	
Nominal output voltage $V_{o\,nom}$	5 VDC, SELV
Output voltage range	4.5 ... 8.5 VDC adjustable
Factory preset	5 VDC
Output current I_o	5.5 A at 5 VDC;
	max. 3.5 A in any mounting position
Adjustment accuracy	< 2 %
Residual ripple	< 100 mV (peak-to-peak) at 20 MHz
Current limitation	1.1 x I_o typ.
Overload behavior	Constant current
Operational indication	LED green (V_o)
Efficiency/Power Losses:	
Efficiency	75 % typ.
Power loss P_V	2.4 W (230 VAC, no load)
	9.4 W (230 VAC, nominal load)
Max. power loss P_V	9,9 W typ. (264 VAC; 5 VDC, 5,5 A)
Fuse Protection:	
Internal fuse	T 2 A / 250 V
External fuse	Circuit breakers 6 A, 10 A, 16 A,
	characteristic: B or C
	An external DC fuse is required for the DC
	input voltage

Technical Data

Environmental Requirements:	
Ambient operating temperature	-25 °C ... +60 °C
	(UL: -25 °C ... +55 °C);
	Device start at -40 °C (type-tested)
Storage temperature	-25 °C ... +80 °C
Relative humidity	5 % ... 96 % (no condensation)
Derating	-3 % / K (> 45 °C)
Climatic category	3K3 (acc. to EN 60721)
Safety and protection:	
Enclosure	Plastic, light gray,
	Flammability class V0 acc. to UL94
Test voltage PRI–SEC	4.2 kV DC
Protection class	Prepared for class II equipment
Degree of protection	IP20 acc. to EN 60529
Overvoltage protection	< 16 VDC (in the event of a fault)
Short circuit protection	yes
No-load proof	yes
Feedback voltage	max. 10 VDC
Parallel operation	yes
Series connection	yes
MTBF	> 500000 h
Connection and type of mounting:	
Wire connection	Input/Output: WAGO 740 Series
Cross sections	Input/Output:
	0.08 ... 2.5 mm² / AWG 28 ... 12
Strip lengths	Input/Output:
	6 ... 7 mm / 0.24 ... 0.28 in
Type of mounting	DIN-rail mount (EN 60715)
Dimensions and weight:	
Dimensions (mm) W x H x L	72 x 89 x 59
	Length: 55 mm, from upper-edge of DIN
Weight	240 g
Standards and Specifications:	
Standards/specifications	EN 60950-1, EN 61204-3,
	UL 60950-1, UL 508, GL *
	(* pending)

Switched-Mode Power Supply, 1-Phase

***EPSITRON*® COMPACT Power**



- Primary switch mode power supply unit
- Prepared for class II equipment
- Natural convection cooling when horizontally mounted
- Stage profile, ideal for distribution boards or distribution boxes
- Parallel operation, series connection possible
- Electrically isolated output voltage (SELV) acc. to EN 60950-1/UL 60950

Description	Item No.	Pack. Unit
Switched-Mode Power Supply, 12 VDC / 2A	**787-1001**	1

Technical Data

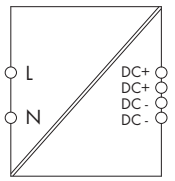
Input:	
Nominal input voltage Vi nom	100 ... 240 VAC
Input voltage range	85 ... 264 VAC; 120 ... 373 VDC
Input voltage derating	< 100 VAC: Ia max. 1.5 A
Frequency	44 ... 66 Hz; 0 Hz
Input current Ii	0.6 A at 110 VAC / 0.4 A at 230 VAC
Discharge current	1mA typ.
Inrush current	< 30 A, NTC
Mains failure hold-up time	> 10 ms at 110 VAC / > 80 ms at 230 VAC
Output:	
Nominal output voltage Vo nom	12 VDC (SELV)
Output voltage range	10.8 ... 18 VDC adjustable
Output current Io	2 A at 12 VDC 0.75 A at 18 VDC max. 1.4 A (12 VDC) in any mounting position
Factory preset	12 VDC
Adjustment accuracy	2%
Residual ripple	< 150 mV (peak-to-peak) at 20 MHz
Current limitation	1.1 x I_o typ.
Overload behavior	Constant current
Operational indication	LED green (V_o)
Efficiency / power losses:	
Efficiency	80 % typ.
Power loss P_V	2.6 W (230 VAC/no load), 6.0 W (230 VAC/rated load)
Max. power loss P_V	6 W typ. (100 VAC / 12 VDC, 2 A)
Fuse protection:	
Internal fuse	T 2 A / 250 V
External fuse	Circuit breakers 10 A, 16 A, characteristic: B or C An external DC fuse is required for the DC input voltage

Technical Data

Environmental requirements:	
Ambient operating temperature	-25 °C ... +60 °C (UL: -25 °C ... +55 °C); Device start at -40 °C (type-tested)
Storage temperature	-25 °C ... +80 °C
Rel. humidity	5 % ... 96 % (no condensation)
Derating	-3 % / K (> 45 °C)
Degree of pollution	2 (acc. to EN 50178)
Climatic category	3K3 (acc. to EN 60721)
Safety and protection:	
Enclosure	Plastic, light gray, Flammability class V0 acc. to UL94
Test voltage pri. - sec.	4.2 kV DC
Protection class	Prepared for class II equipment
Degree of protection	IP20 (acc. to EN 60529)
Overvoltage protection	< 30 VDC (in the event of a fault)
Short circuit protection	yes
No-load proof	yes
Feedback voltage	max. 20 VDC
Parallel operation	yes
Series connection	yes
MTBF	500000 h
Connection and type of mounting:	
Wire connection	Input/Output: WAGO 740 Series
Cross sections	Input/Output: 0.08 ... 2.5 mm² / AWG 28 ... 12
Strip lengths	Input/Output: 6 ... 7 mm / 0.24 ... 0.28 in
Type of mounting	DIN-rail mount (EN 60715)
Dimensions and weight:	
Dimensions (mm) W x H x L	54 x 89 x 59 Length: 55 mm, from upper-edge of DIN 35 rail
Weight	180 g
Standards and approvals:	
Standards/Specifications	EN 60950, EN 61204-3, UL 60950, UL 508, GL

Switched-Mode Power Supply, 1-Phase

***EPSITRON*® COMPACT Power**



- Primary switch mode power supply unit
- Prepared for class II equipment
- Natural convection cooling when horizontally mounted
- Stage profile, ideal for distribution boards or distribution boxes
- Parallel operation, series connection possible
- Electrically isolated output voltage (SELV) acc. to EN 60950-1/UL 60950

Description	Item No.	Pack. Unit
Switched-Mode Power Supply, 12 VDC / 4A	**787-1011**	1

Technical Data

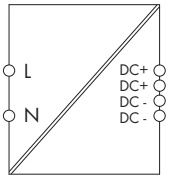
Input:	
Nominal input voltage Vi nom	100 ... 240 VAC
Input voltage range	85 ... 264 VAC; 120 ... 373 VDC
Input voltage derating	< 100 VAC: Ia max. 3.5 A
Frequency	44 ... 66 Hz; 0 Hz
Input current Ii	0.9 A at 110 VAC / 0.5 A at 230 VAC
Discharge current	1mA typ.
Inrush current	< 30 A, NTC
Mains failure hold-up time	> 10 ms at 110 VAC /
	> 80 ms at 230 VAC
Output:	
Nominal output voltage Vo nom	12 VDC (SELV)
Output voltage range	10.5 ... 15.5 VDC adjustable
Output current Io	4 A at 12 VDC
	max. 2.4 A in any mounting position
Factory preset	12 VDC
Adjustment accuracy	2%
Residual ripple	< 100 mV (peak-to-peak) at 20 MHz
Current limitation	1.1 x I_o typ.
Overload behavior	Constant current
Operational indication	LED green (V_o)
Efficiency / power losses:	
Efficiency	85 % typ.
Power loss P_V	2.2 W (230 VAC/no load),
	8.5 W (230 VAC/rated load)
Max. power loss P_V	9 W typ. (100 VAC / 12 VDC, 4 A)
Fuse protection:	
Internal fuse	T 2 A / 250 V
External fuse	Circuit breakers 10 A, 16 A,
	characteristic: B or C
	An external DC fuse is required for the DC
	input voltage

Technical Data

Environmental requirements:	
Ambient operating temperature	-25 °C ... +60 °C
	(UL: -25 °C ... +55 °C);
	Device start at -40 °C (type-tested)
Storage temperature	-25 °C ... +80 °C
Rel. humidity	5 % ... 96 % (no condensation)
Derating	-3 % / K (> 45 °C)
Degree of pollution	2 (acc. to EN 50178)
Climatic category	3K3 (acc. to EN 60721)
Safety and protection:	
Enclosure	Plastic, light gray,
	Flammability class V0 acc. to UL94
Test voltage pri. - sec.	4.2 kV DC
Protection class	Prepared for class II equipment
Degree of protection	IP20 (acc. to EN 60529)
Overvoltage protection	< 30 VDC (in the event of a fault)
Short circuit protection	yes
No-load proof	yes
Feedback voltage	max. 20 VDC
Parallel operation	yes
Series connection	yes
MTBF	500000 h
Connection and type of mounting:	
Wire connection	Input/Output: WAGO 740 Series
Cross sections	Input/Output:
	0.08 ... 2.5 mm² / AWG 28 ... 12
Strip lengths	Input/Output:
	6 ... 7 mm / 0.24 ... 0.28 in
Type of mounting	DIN-rail mount (EN 60715)
Dimensions and weight:	
Dimensions (mm) W x H x L	72 x 89 x 59
	Length: 55 mm, from upper-edge of DIN 35 rail
Weight	255 g
Standards and approvals:	
Standards/Specifications	EN 60950, EN 61204-3,
	UL 60950, UL 508, GL

Switched-Mode Power Supply, 1-Phase

***EPSITRON*® COMPACT Power**



- Primary switch mode power supply unit
- Prepared for class II equipment
- Natural convection cooling when horizontally mounted
- Stage profile, ideal for distribution boards or distribution boxes
- Parallel operation, series connection possible
- Electrically isolated output voltage (SELV) acc. to EN 60950-1/UL 60950

Description	Item No.	Pack. Unit
Switched-Mode Power Supply, 12 VDC / 6.5A	**787-1021**	1

Technical Data

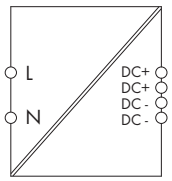
Input:	
Nominal input voltage Vi nom	100 ... 240 VAC
Input voltage range	85 ... 264 VAC; 120 ... 373 VDC
Input voltage derating	max. 6 A (< 100 VAC) /
	5.5 A (< 90 VAC)
Frequency	44 ... 66 Hz; 0 Hz
Input current Ii	1.6 A at 110 VAC / 0.9 A at 230 VAC
Discharge current	1mA typ.
Inrush current	< 30 A, NTC
Mains failure hold-up time	> 15 ms at 110 VAC /
	> 100 ms at 230 VAC
Output:	
Nominal output voltage Vo nom	12 VDC (SELV)
Output voltage range	10.5 ... 15.5 VDC adjustable
Output current Io	6.5 A at 12 VDC
	max. 3.9 A (12 VDC) in any mounting
	position
Factory preset	12 VDC
Adjustment accuracy	2%
Residual ripple	< 100 mV (peak-to-peak) at 20 MHz
Current limitation	1.1 x I_o typ.
Overload behavior	Constant current
Operational indication	LED green (V_o)
Efficiency / power losses:	
Efficiency	87 % typ.
Power loss P_V	< 1 W (no load) /
	15 W (rated load)
Max. power loss P_V	15 W typ. (100 VAC / 12 VDC, 6.5 A)
Fuse protection:	
Internal fuse	T 4 A / 250 V
External fuse	Circuit breakers 10 A, 16 A,
	characteristic: B or C
	An external DC fuse is required for the DC
	input voltage

Technical Data

Environmental requirements:	
Ambient operating temperature	-25 °C ... +60 °C
	(UL: -25 °C ... +55 °C);
	Device start at -40 °C (type-tested)
Storage temperature	-25 °C ... +85 °C
Rel. humidity	5 % ... 96 % (no condensation)
Derating	-3 % / K (> 45 °C)
Degree of pollution	2 (acc. to EN 50178)
Climatic category	3K3 (acc. to EN 60721)
Safety and protection:	
Enclosure	Plastic, light gray,
	Flammability class V0 acc. to UL94
Test voltage pri. - sec.	4.2 kV DC
Protection class	Prepared for class II equipment
Degree of protection	IP20 (acc. to EN 60529)
Overvoltage protection	< 30 VDC (in the event of a fault)
Short circuit protection	yes
No-load proof	yes
Feedback voltage	max. 20 VDC
Parallel operation	yes
Series connection	yes
MTBF	500000 h
Connection and type of mounting:	
Wire connection	Input/Output: WAGO 740 Series
Cross sections	Input/Output:
	0.08 ... 2.5 mm² / AWG 28 ... 12
Strip lengths	Input/Output:
	6 ... 7 mm / 0.24 ... 0.28 in
Type of mounting	DIN-rail mount (EN 60715)
Dimensions and weight:	
Dimensions (mm) W x H x L	90 x 89 x 59
	Length: 55 mm, from upper-edge of DIN 35 rail
Weight	300 g
Standards and approvals:	
Standards/Specifications	EN 60950, EN 61204-3,
	UL 60950, UL 508, GL

Switched-Mode Power Supply, 1-Phase

***EPSITRON*® COMPACT Power**



- Primary switch mode power supply unit
- Prepared for class II equipment
- Natural convection cooling when horizontally mounted
- Stage profile, ideal for distribution boards or distribution boxes
- Parallel operation, series connection possible
- Electrically isolated output voltage (SELV) acc. to EN 60950-1/UL 60950

Description	Item No.	Pack. Unit
Switched-Mode Power Supply, 24 VDC / 1.3A	**787-1002**	1

Technical Data

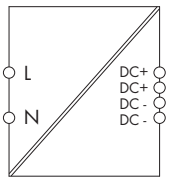
Input:	
Nominal input voltage Vi nom	100 ... 240 VAC
Input voltage range	85 ... 264 VAC; 120 ... 373 VDC
Input voltage derating	< 100 VAC: Ia max. 1 A
Frequency	44 ... 66 Hz; 0H z
Input current Ii	0.7 A at 110 VAC / 0.5 A at 230 VAC
Discharge current	1mA typ.
Inrush current	< 30 A, NTC
Mains failure hold-up time	> 10 ms at 110 VAC /
	> 80 ms at 230 VAC
Output:	
Nominal output voltage Vo nom	24 VDC (SELV)
Output voltage range	22.8 ... 26.4 VDC adjustable
Output current Io	1.3 A at 24 VDC
	max. 0.9 A in any mounting position
Factory preset	24 VDC
Adjustment accuracy	2%
Residual ripple	< 100 mV (peak-to-peak) at 20 MHz
Current limitation	1.1 x I_o typ.
Overload behavior	Constant current
Operational indication	LED green (V_o)
Efficiency / power losses:	
Efficiency	82 % typ.
Power loss P_V	2.6 W (230 VAC/no load),
	7.0 W (230 VAC/rated load)
Max. power loss P_V	7.3 W typ. (100 VAC / 24 VDC, 1.3 A)
Fuse protection:	
Internal fuse	T 2 A / 250 V
External fuse	Circuit breakers 10 A, 16 A,
	characteristic: B or C
	An external DC fuse is required for the DC
	input voltage

Technical Data

Environmental requirements:	
Ambient operating temperature	-25 °C ... +60 °C
	(UL: -25 °C ... +55 °C);
	Device start at -40 °C (type-tested)
Storage temperature	-25 °C ... +80 °C
Rel. humidity	5 % ... 96 % (no condensation)
Derating	-3 % / K (> 45 °C)
Degree of pollution	2 (acc. to EN 50178)
Climatic category	3K3 (acc. to EN 60721)
Safety and protection:	
Enclosure	Plastic, light gray,
	Flammability class V0 acc. to UL94
Test voltage pri. - sec.	4.2 kV DC
Protection class	Prepared for class II equipment
Degree of protection	IP20 (acc. to EN 60529)
Overvoltage protection	< 40 VDC (in the event of a fault)
Short circuit protection	yes
No-load proof	yes
Feedback voltage	max. 30 VDC
Parallel operation	yes
Series connection	yes
MTBF	500000 h
Connection and type of mounting:	
Wire connection	Input/Output: WAGO 740 Series
Cross sections	Input/Output:
	0.08 ... 2.5 mm² / AWG 28 ... 12
Strip lengths	Input/Output:
	6 ... 7 mm / 0.24 ... 0.28 in
Type of mounting	DIN-rail mount (EN 60715)
Dimensions and weight:	
Dimensions (mm) W x H x L	54 x 89 x 59
	Length: 55 mm, from upper-edge of DIN 35 rail
Weight	180 g
Standards and approvals:	
Standards/Specifications	EN 60950, EN 61204-3,
	UL 60950, UL 508, GL

Switched-Mode Power Supply, 1-Phase

***EPSITRON*® COMPACT Power**



- Primary switch mode power supply unit
- Prepared for class II equipment
- Natural convection cooling when horizontally mounted
- Stage profile, ideal for distribution boards or distribution boxes
- Parallel operation, series connection possible
- Electrically isolated output voltage (SELV) acc. to EN 60950-1/UL 60950

Description	Item No.	Pack. Unit
Switched-Mode Power Supply, 24 VDC / 2.5A	**787-1012**	1

Technical Data

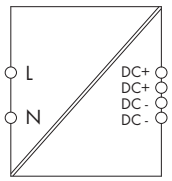
Input:	
Nominal input voltage Vi nom	100 ... 240 VAC
Input voltage range	85 ... 264 VAC; 120 ... 373 VDC
Input voltage derating	< 100 VAC: Ia max. 2.0 A
	< 90 VAC: Ia max. 1.8 A
Frequency	44 ... 66 Hz; 0 Hz
Input current Ii	1.4 A at 110 VAC / 0.6 A at 230 VAC
Discharge current	1mA typ.
Inrush current	< 30 A, NTC
Mains failure hold-up time	> 10 ms at 110 VAC /
	> 80 ms at 230 VAC
Output:	
Nominal output voltage Vo nom	24 VDC (SELV)
Output voltage range	22.8 ... 26.4 VDC adjustable
Output current Io	2.5 A at 24 VDC
	max. 1.6 A in any mounting position
Factory preset	24 VDC
Adjustment accuracy	2%
Residual ripple	< 100 mV (peak-to-peak) at 20 MHz
Current limitation	1.1 x I_o typ.
Overload behavior	Constant current
Operational indication	LED green (V_o)
Efficiency / power losses:	
Efficiency	88 % typ.
Power loss P_V	2.2 W (230 VAC/no load),
	8.5 W (230 VAC/rated load)
Max. power loss P_V	10.5 W typ. (100 VAC / 24 VDC, 2.5 A)
Fuse protection:	
Internal fuse	T 2 A / 250 V
External fuse	Circuit breakers 10 A, 16 A,
	characteristic: B or C
	An external DC fuse is required for the DC
	input voltage

Technical Data

Environmental requirements:	
Ambient operating temperature	-25 °C ... +60 °C
	(UL: -25 °C ... +55 °C);
	Device start at -40 °C (type-tested)
Storage temperature	-25 °C ... +80 °C
Rel. humidity	5 % ... 96 % (no condensation)
Derating	-3 % / K (> 45 °C)
Degree of pollution	2 (acc. to EN 50178)
Climatic category	3K3 (acc. to EN 60721)
Safety and protection:	
Enclosure	Plastic, light gray,
	Flammability class V0 acc. to UL94
Test voltage pri. - sec.	4.2 kV DC
Protection class	Prepared for class II equipment
Degree of protection	IP20 (acc. to EN 60529)
Overvoltage protection	< 40 VDC (in the event of a fault)
Short circuit protection	yes
No-load proof	yes
Feedback voltage	max. 30 VDC
Parallel operation	yes
Series connection	yes
MTBF	> 500000 h
Connection and type of mounting:	
Wire connection	Input/Output: WAGO 740 Series
Cross sections	Input/Output:
	0.08 ... 2.5 mm² / AWG 28 ... 12
Strip lengths	Input/Output:
	6 ... 7 mm / 0.24 ... 0.28 in
Type of mounting	DIN-rail mount (EN 60715)
Dimensions and weight:	
Dimensions (mm) W x H x L	72 x 89 x 59
	Length: 55 mm, from upper-edge of DIN 35 rail
Weight	255 g
Standards and approvals:	
Standards/Specifications	EN 60950, EN 61204-3,
	UL 60950, UL 508, GL

Switched-Mode Power Supply, 1-Phase

***EPSITRON*® COMPACT Power**



- Primary switch mode power supply unit
- Prepared for class II equipment
- Natural convection cooling when horizontally mounted
- Stage profile, ideal for distribution boards or distribution boxes
- Parallel operation, series connection possible
- Electrically isolated output voltage (SELV) acc. to EN 60950-1/UL 60950

Description	Item No.	Pack. Unit
Switched-Mode Power Supply, 24 VDC / 4A	**787-1022**	1

Technical Data

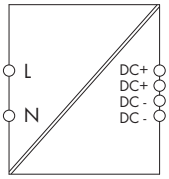
Input:	
Nominal input voltage Vi nom	100 ... 240 VAC
Input voltage range	85 ... 264 VAC; 120 ... 373 VDC
Input voltage derating	on request
Frequency	44 ... 66 Hz; 0 Hz
Input current Ii	1.6 A at 110 VAC / 0.9 A at 230 VAC
Discharge current	1mA typ.
Inrush current	< 30 A, NTC
Mains failure hold-up time	> 15 ms at 110 VAC /
	> 100 ms at 230 VAC
Output:	
Nominal output voltage Vo nom	24 VDC (SELV)
Output voltage range	22.8 ... 26.4 VDC adjustable
Output current Io	4 A at 24 VDC
	max. 2.4 A in any mounting position
Factory preset	24 VDC
Adjustment accuracy	2 %
Residual ripple	< 100 mV (peak-to-peak) at 20 MHz
Current limitation	1.1 x I_o typ.
Overload behavior	Constant current
Operational indication	LED green (V_o)
Efficiency / power losses:	
Efficiency	88 % typ.
Power loss P_V	0.8 W (230 VAC/no load),
	13.1 W (230 VAC/rated load)
Max. power loss P_V	14.8 W typ. (264 VAC / 24 VDC, 4 A)
Fuse protection:	
Internal fuse	T 4 A / 250 V
External fuse	Circuit breakers 10 A, 16 A,
	characteristic: B or C
	An external DC fuse is required for the DC
	input voltage

Technical Data

Environmental requirements:	
Ambient operating temperature	-25 °C ... +60 °C
	(UL: -25 °C ... +55 °C);
	Device start at -40 °C (type-tested)
Storage temperature	-25 °C ... +80 °C
Rel. humidity	5 % ... 96 % (no condensation)
Derating	-3 % / K (> 45 °C)
Degree of pollution	2 (acc. to EN 50178)
Climatic category	3K3 (acc. to EN 60721)
Safety and protection:	
Enclosure	Plastic, light gray,
	Flammability class V0 acc. to UL94
Test voltage pri. - sec.	4.2 kV DC
Protection class	Prepared for class II equipment
Degree of protection	IP20 (acc. to EN 60529)
Overvoltage protection	< 40 VDC (in the event of a fault)
Short circuit protection	yes
No-load proof	yes
Feedback voltage	max. 30 VDC
Parallel operation	yes
Series connection	yes
MTBF	500000 h
Connection and type of mounting:	
Wire connection	Input/Output: WAGO 740 Series
Cross sections	Input/Output:
	0.08 ... 2.5 mm² / AWG 28 ... 12
Strip lengths	Input/Output:
	6 ... 7 mm / 0.24 ... 0.28 in
Type of mounting	DIN-rail mount (EN 60715)
Dimensions and weight:	
Dimensions (mm) W x H x L	90 x 89 x 59
	Length: 55 mm, from upper-edge of DIN 35 rail
Weight	310 g
Standards and approvals:	
Standards/Specifications	EN 60950, EN 61204-3,
	UL 60950, UL 508, GL

Switched-Mode Power Supply, 1-Phase

***EPSITRON*® COMPACT Power**



- Primary switch mode power supply unit
- Prepared for class II equipment
- Natural convection cooling when horizontally mounted
- Stage profile, ideal for distribution boards or distribution boxes
- At reduced output current, any type of mounting positions are possible (e.g., horizontal, overhead mounting).
- Electrically isolated output voltage (SELV) acc. to EN / UL 60950-1

Description	Item No.	Pack. Unit
Switched-mode power supply, 15 ... 28 VDC / 2 A	**787-1017**	1

Technical Data

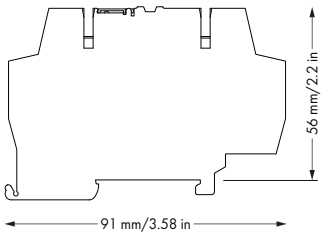
Input:	
Nominal input voltage $V_{i\,nom}$	100 ... 240 VAC
Input voltage range	85 ... 264 VAC; 120 ... 373 VDC
Input voltage derating	max. 2 A (< 100 VAC)
Frequency	44 Hz ... 66 Hz; 0 Hz
Input current Ii	0.9 A at 110 VAC /
	0.5 A at 230 VAC
Discharge current	1 mA typ.
Inrush current	< 30 A, NTC
Mains failure hold-up time	> 10 ms at 110 VAC /
	> 130 ms at 230 VAC
Output:	
Nominal output voltage $V_{o\,nom}$	18 VDC
Output voltage range	15 ... 28 VDC adjustable
Output current I_o	2.4 A at 18 VDC
	2.0 A at 24 VDC in horizontal mounting
	position
Factory preset	18 VDC
Adjustment accuracy	2 %
Residual ripple	< 100 mV (peak-to-peak) at 20 MHz
Current limitation	1.1 x I_o typ.
Overload behavior	Constant current
Operational indication	LED green (V_o)
Efficiency/Power losses:	
Efficiency	84 % typ.
Power loss P_V	2.6 W (230 VAC / no load)
	8.1 W (230 VAC / nominal load)
Max. power loss P_V	8.2 W (100 VAC / 18 VDC, 2.4 A)
Fuse protection:	
Internal fuse	T 2 A / 250 V
External fuse	Circuit breakers 10 A, 16 A,
	characteristic: B or C
	An external DC fuse is required for the DC
	input voltage

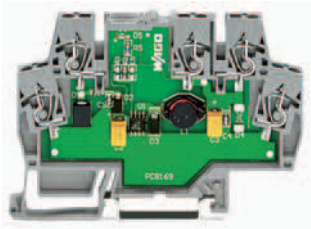
Technical Data

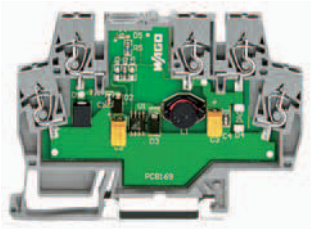
Environmental requirements:	
Ambient operating temperature	-25 °C ... +60 °C
	(UL: -25 °C ... +55 °C);
	Device start at -40 °C (type-tested)
Storage temperature	-25 °C ... +80 °C
Rel. humidity	5 % ... 96 % (no condensation)
Derating	-3 % / K (> 45 °C)
Degree of pollution	2 (acc. to EN 50178)
Climatic category	3K3 (acc. to EN 60721)
Safety and protection:	
Enclosure	Plastic, light gray,
	Flammability class V0 acc. to UL94
Test voltage pri. - sec.	4.2 kV DC
Protection class	Prepared for class II equipment
Degree of protection	IP20 (acc. to EN 60529)
Overvoltage protection	< 40 VDC (in the event of a fault)
Short circuit protection	yes
No-load proof	yes
Feedback voltage	max. 25 VDC
Parallel operation	yes
Series connection	yes
MTBF	500000 h
Connection and type of mounting:	
Wire connection	Input/Output: WAGO 740 Series
Cross sections	Input/Output:
	0.08 ... 2.5 mm² / AWG 28 ... 12
Strip lengths	Input/Output:
	6 ... 7 mm / 0.24 ... 0.28 in
Type of mounting	DIN-rail mount (EN 60715)
Dimensions and weight:	
Dimensions (mm) W x H x L	72 x 89 x 59
	Length from upper-edge of DIN 35 rail
Weight	264 g
Standards and approvals:	
Standards/Specifications	EN 60950, EN 61204-3,
	UL 60950-1, UL 508, GL *
	(* pending)

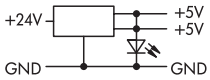
Rail-Mounted Terminal Blocks with DC/DC Converter

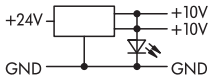
	DC/DC converter 24 V / 5 V, 0.5 ADCADC	DC/DC converter 24 V / 10 V, 0.5 ADC









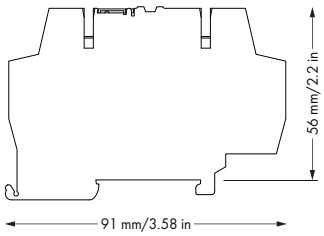


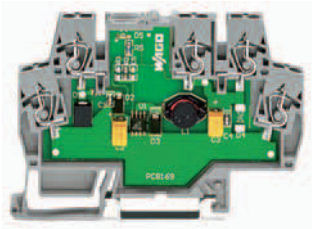
Description	V_N / V_O	Item No.	Pack. Unit	V_N / V_O	Item No.	Pack. Unit
DC/DC converter, for DIN 35 rail	24 VDC / 5 VDC ± 2 %	**859-801**	1	24 VDC / 10 VDC ± 2 %	**859-802**	1

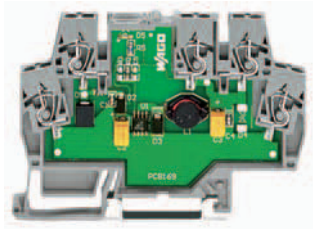
Technical Data

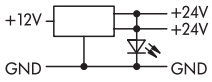
Nominal input voltage (V_N)	24 VDC	24 VDC
Input voltage range	10 ... 30 VDC	15 ... 30 VDC
Output voltage	5 VDC ± 2 %	10 VDC ± 2 %
Output current (max.)	500 mA (individual terminal block, 10 mm distance); 400 mA (terminal strip)	500 mA
Line regulation, max. (full load, over input voltage range)	2 %	0.5 %
Max. load regulation (no load to full load, nominal input	0.5 %	0.7 %
Efficiency at full load (24 VDC in)	70 %	85 %
Output noise peak-to-peak max. (20 MHz bandwidth)	150 mV	20 mV
Switching frequency	200 kHz (nominal)	200 kHz (nominal)
Isolation	non-isolated	non-isolated
Reverse voltage protection, input	yes	yes
Minimum load requirement	no	no
Max. transient recovery time (recovery time for load change from 25 % to 75% of full load)	40 µs	500 µs
Max. startup time (24 VDC in, full load)	3 ms	3 ms
Max. hold time (nominal input voltage, full load)	1 ms	500 µs
Input fuse	TVS diode	TVS diode
Output short circuit protection	temporary (short-circuit of the output for 1 minute without damage to the device)	temporary (short-circuit of the output for 1 minute without damage to the device)
Temperature coefficient	70 ppm/°C	100 ppm/°C
Ambient operating temperature	0 °C ... +40 °C	-25 °C ... +55 °C
Dimensions (mm) W x H x L	6 x 56 x 91 Height from upper-edge of DIN 35 rail	6 x 56 x 91 Height from upper-edge of DIN 35 rail
Wire connection	CAGE CLAMP®	CAGE CLAMP®
Cross sections	0.08 ... 2.5 mm² / AWG 28 ... 14	0.08 ... 2.5 mm² / AWG 28 ... 14
Stripped lengths	5 ... 6 mm / 0.22 in	5 ... 6 mm / 0.22 in

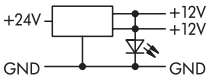
	DC/DC converter 12 V / 24 V, 250 mADC	DC/DC converter 24 V / 12 V, 0.5 ADC











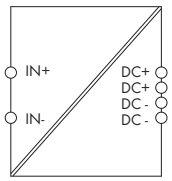
Description	V_N / V_O	Item No.	Pack. Unit	V_N / V_O	Item No.	Pack. Unit
DC/DC converter, for DIN 35 rail	12 VDC / 24 VDC ± 1 %	**859-804**	1	24 VDC / 12 VDC ± 2 %	**859-805**	1

Technical Data

Nominal input voltage (V_N)	12 VDC	24 VDC
Input voltage range	8 … 16 VDC	15 … 30 VDC
Output voltage	24 VDC ± 1 %	12 VDC ± 2 %
Output current (max.)	250 mA	500 mA
Line regulation, max. (full load, over input voltage range)	0.5 %	0.5 %
Max. load regulation (no load to full load, nominal input	0.5 %	0.7 %
Efficiency at full load (24 VDC in)	83 %	85 %
Output noise peak-to-peak max. (20 MHz bandwidth)	40 mV	20 mV
Switching frequency	1.2 MHz (nominal)	200 kHz (nominal)
Isolation	non-isolated	non-isolated
Reverse voltage protection, input	yes	yes
Minimum load requirement	no	no
Max. transient recovery time (recovery time for load change from 25 % to 75% of full load)	50 µs	500 µs
Max. startup time (24 VDC in, full load)	8 ms	3 ms
Max. hold time (nominal input voltage, full load)	500 µs	500 µs
Input fuse	TVS diode	TVS diode
Output short circuit protection	fuse	temporary (short-circuit of the output for 1 minute without damage to the device)
Temperature coefficient	100 ppm/°C	100 ppm/°C
Ambient operating temperature	-25 °C … +55 °C	-25 °C … +55 °C
Dimensions (mm) W x H x L	6 x 56 x 91	6 x 56 x 91
	Height from upper-edge of DIN 35 rail	Height from upper-edge of DIN 35 rail
Wire connection	CAGE CLAMP®	CAGE CLAMP®
Cross sections	0.08 … 2.5 mm² / AWG 28 … 14	0.08 … 2.5 mm² / AWG 28 … 14
Stripped lengths	5 … 6 mm / 0.22 in	5 … 6 mm / 0.22 in

Rail-Mounted Modules - DC/DC Converter

EPSITRON® COMPACT Power



- Primary switch mode power supply unit
- Suitable for protection class II equipment
- Natural convection cooling when horizontally mounted
- Stepped profile, ideal for distribution boards or distribution boxes
- Suitable for both parallel and series operation
- Electrically isolated output voltage (SELV) acc. to EN 60950-1/UL 60950-1

Description	Item No.	Pack. Unit
Switched-mode power supply, 24 VDC / 2.0 A	**787-1014**	1

Technical Data

Input:	
Nominal input voltage $V_{i\,nom}$	110 VDC
Input voltage range	77 V ... 140 VDC
Frequency	0 Hz
Input current Ii	0.77 A at 77 VDC /
	0.42 A at 140 VDC
Inrush current	< 30 A, NTC
Mains failure hold-up time	> 8 ms at 77 VDC /
	> 25 ms at 140 VDC
Output:	
Nominal output voltage $V_{o\,nom}$	24 VDC (SELV)
Output current I_o	2.0 A at 24 VDC
	max. 1.6 A in any mounting position
Factory preset	24 VDC
Adjustment accuracy	2 %
Residual ripple	< 100 mV (peak-to-peak) at 20 MHz
Current limitation	1.1 x I_o typ.
Overload behavior	Constant current
Operational indication	LED green (V_o)
Efficiency/Power losses:	
Efficiency	85 % typ.
Power loss P_V	1.9 W (110 VDC/no load),
	9.9 W (110 VDC/nominal load)
Max. power loss P_V	9.9 W typ. (77 VDC / 24 VDC, 2 A)
Fuse protection:	
Internal fuse	T 4 A / 125 VDC
External fuse	6 A, 10 A power circuit breakers,
	B, C characteristics

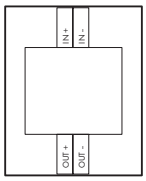
Technical Data

Environmental requirements:	
Ambient operating temperature	-40 °C ... +70 °C
Storage temperature	-40 °C ... +85 °C
Rel. humidity	5 % ... 96 % (varnished PCB)
Derating	-1.5 %/K (> 55 °C)
Degree of pollution	2 (acc. to EN 50178)
Climatic category	3K3 (acc. to EN 60721)
Shock and vibration	Category 1, class B
	(acc. to EN 61373:2010)
Safety and protection:	
Enclosure	Plastic, light gray,
	Flammability class V0 acc. to UL94
Test voltage pri. - sec.	4.2 kV DC
Protection class	Prepared for class II equipment
Degree of protection	IP20 (acc. to EN 60529)
Overvoltage protection	Varistor (input side);
	internal protective circuit,
	< 40 VDC (output side in case of an error)
Short circuit protection	yes
No-load proof	yes
Feedback voltage	max. 35 VDC
Parallel operation	yes
Series connection	yes
MTBF	> 500000 h
Connection and type of mounting:	
Wire connection	Input/Output: WAGO 740 Series
Cross sections	Input/Output:
	0.08 mm² ... 2.5 mm² / AWG 28 ... 12
Strip lengths	Input/Output:
	6 ... 7 mm / 0.24 ... 0.28 in
Type of mounting	DIN-rail mount (EN 60715)
Dimensions and weight:	
Dimensions (mm) W x H x L	72 x 89 x 59
	Height: 55 mm, from upper-edge
	of DIN 35 rail
Weight	250 g
Standards and approvals:	
Standards/Specifications	EN 60950, EN 61204-3,
	UL 60950 *, UL 508 *, GL *
	* (pending)

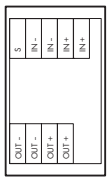
Rail-Mounted Modules - DC/DC Converter

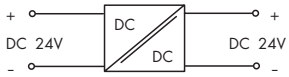
	24 V / 24 V; 0.21 ADC Mounting feet for DIN 35 rail	24 V / 18 V; 0.4 ADC Mounting carrier for DIN 35 rail

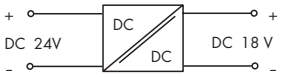
289-913



288-895

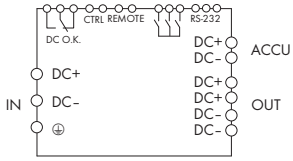






Description	Item No.	Pack. Unit	Item No.	Pack. Unit
DC/DC converter	**289-913**	1	**288-895**	1
Technical Data				
Input voltage	24 VDC		24 VDC	
Input voltage range	± 10 %		18 ... 36 VDC	
Output voltage	24 VDC (± 3 %)		18 VDC (± 1 %)	
Nominal output current	210 mA		400 mA	
Peak output current	315 mA			
Efficiency	65 % ... 75 %		82 %	
Test voltage input/output	500 VDC		1500 VDC	
Short circuit protection	Thermal cut-out		permanent	
Ambient operating temperature	-25 °C ... +40 °C		-25 °C ... +70 °C	
Weight	77 g		75.9 g	
Dimensions (mm) W x H x L	83 x 25 x 77		50 x 25 x 85	
	Height from upper-edge of DIN 35 rail		Height from upper-edge of DIN 35 rail	
Wire connection	CAGE CLAMP® (236 Series)		CAGE CLAMP® (256 Series)	
Cross sections	0.08 ... 2.5 mm² / AWG 28 ... 12 (THHN, THWN)		0.08 ... 2.5 mm² / AWG 28 ... 12 (THHN, THWN)	
Stripped lengths	5 ... 6 mm / 0.22 in		5 ... 6 mm / 0.22 in	
EMC 1-Immunity to interference			acc. to EN 50082-2 (1996) * * Only in conjunction with	
			DALI/DSI Master Module 750-641	
EMC 1-Emission of interference			acc. to EN 50081-1 (1993) * * Only in conjunction with	
			DALI/DSI Master Module 750-641	
Accessories				
WMB Multi marking system for mounting carrier			see from page 506	
Marker strips for mounting carrier			white 709-198 / translucent 709-196	

EPSITRON® - UPS Charger and Controller



- Charger and controller for uninterruptible power supply (UPS)
- Current and voltage monitoring, as well as parameter setting via LCD and RS-232 interface
- Active signal outputs for watchdog functions
- Remote input for switching off buffered output
- Input for temperature control of connected battery
- Battery control (from manufacturing no. 215563) detects both battery life and battery type

Description	Item No.	Pack. Unit
UPS charger and controller, 24 V DC / 10 A	**787-870**	1

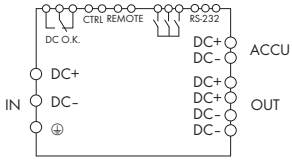
Technical Data

Input:	
Nominal input voltage Vi nom	24 V DC
Input voltage range	22 V ... 29 V DC
Input current Ii	0.1 A (no-load running); 0.8 A (charging); 10.8 A (max.)
Inrush current	< 4 A (no load)
Switch-on threshold (adjustable)	20 V ... 25.5 V DC
Output:	
Nominal output voltage Vo nom	24 V DC
Output voltage range	Vi - 0.5 V DC (below switch-on threshold); 20 V ... 25.5 V DC (during buffer operation)
Output current Io	10 A
Current limitation	typ. 11 - 14 A
Buffer time	10 s ... 600 s or constant (adjustable)
Final load voltage	26 V ... 29.5 V DC or temperature controlled (adjustable)
Charging current	max. 0.6 A
Recommended battery modules	787-871, 787-872, 787-873, 787-876
Operational indication	LED green (Vo), LED yellow (warning), LED red (error)
Signaling	LCD, 3 x signal output 24 V DC, 25 mA and 1 x floating relay contact 30 V DC, 1 A
Remote input	to switch off buffer operation
LineMonitor, parameter setting	via LCD and RS-232 serial interface
Efficiency / power losses:	
Efficiency	95 % typ.
Power loss P_V	15 W (stand-by) / 20 W (rated load)
Fuse protection:	
Internal fuse	15AT

Technical Data

Environmental requirements:	
Ambient operating temperature	-10 °C ... +60°C
Storage temperature	-25 °C ... +85 °C
Rel. humidity	30 % ... 85 % (no condensation))
Safety and protection:	
Test voltage	500 V DC (terminals to enclosure)
Protection class	III
Reverse voltage protection	yes
Degree of protection	IP20 acc. to EN 60529
Feedback voltage	max. 35 VDC
Parallel operation	yes, for buffer time extension (temperature measurement evaluation is only possible via one battery module)
Connection and type of mounting:	
Wire connection	Input/Output: WAGO 231 Series
Cross sections	Input/Output: 0.08 ... 2.5 mm² / AWG 28 ... 12
Strip lengths	Input/Output: 8 ... 9 mm / 0.33 in
Line length	≤ 3 m (Input, Output, Battery Control)
Type of mounting	DIN-rail mounting (EN 60715) in 2 positions
Dimensions and weight:	
Dimensions (mm) W x H x L	40 x 163 x 163
	Height from upper-edge of DIN 35 rail
Weight	800 g
Standards and approvals:	
Standards/Specifications	EN 60950, UL 60950, UL 508, EN 61000-6-2, EN 61000-6-3

EPSITRON®- UPS Charger and Controller



- Charger and controller for uninterruptible power supply (UPS)
- Current and voltage monitoring, as well as parameter setting via LCD and RS-232 interface
- Active signal outputs for watchdog functions
- Remote input for switching off buffered output
- Input for temperature control of connected battery
- Battery control (from manufacturing no. 215563) detects both battery life and battery type

Description	Item No.	Pack. Unit
UPS charger and controller, 24 V DC / 20 A	**787-875**	1

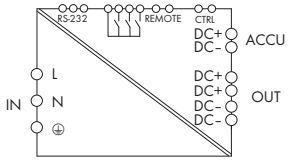
Technical Data

Input:	
Nominal input voltage Vi nom	24 V DC
Input voltage range	22 V ... 29 V DC
Input current Ii	0.1 A (no-load running); 1.5 A (charging); 21.5 A (max.)
Inrush current	< 4 A (no load)
Switch-on threshold (adjustable)	20 V ... 25.5 V DC
Output:	
Nominal output voltage Vo nom	24 V DC
Output voltage range	Vi - 1 V DC (below switch-on threshold); 20 V ... 25.5 V DC (buffer mode)
Output current Io	20 A
Current limitation	typ. 22 - 26A
Buffer time	10 s ... 600 s or constant (adjustable)
Final load voltage	26 V ... 29.5 V DC or temperature controlled (adjustable)
Charging current	max. 1.0 A
Recommended battery modules	787-871, 787-872, 787-873
Operational indication	LED green (Vo), LED yellow (warning), LED red (error)
Signaling	LCD, 3 x signal output 24 V DC, 25 mA and 1 x floating relay contact 30 V DC, 1 A
Remote input	to switch off buffer operation
LineMonitor, parameter setting	via LCD and RS-232 serial interface
Efficiency / power losses:	
Efficiency	95 % typ.
Power loss P_V	15 W (stand-by) / 30 W (rated load)
Fuse protection:	
Internal fuse	25 AT

Technical Data

Environmental requirements:	
Ambient operating temperature	-10 °C ... +60 °C
Storage temperature	-25 °C ... +85 °C
Rel. humidity	30 % ... 85 % (no condensation))
Safety and protection:	
Test voltage	500 V DC (terminals to enclosure)
Protection class	III
Reverse voltage protection	yes
Degree of protection	IP20
Feedback voltage	max. 35 VDC
Parallel operation	yes, for buffer time extension (temperature measurement evaluation is only possible via one battery module)
Connection and type of mounting:	
Wire connection	Input/Output: WAGO 831 Series Signalising: WAGO 733 Series
Cross sections	Input/Output: 0.5 mm² ... 10 mm² / AWG 20 ... 8 Signalising: 0.08 mm² ... 0.5 mm² / AWG 28 ... 20
Strip lengths	Input/Output: 13 ... 15 mm / 0.55 in Signalising: 5 ... 6 mm / 0.22 in
Line length	≤ 3 m (Input, Output, Battery Control)
Type of mounting	DIN-rail mounting (EN 60715) in 2 positions
Dimensions and weight:	
Dimensions (mm) W x H x L	57 x 163 x 171 Height from upper-edge of DIN 35 rail
Weight	1200 g
Standards and approvals:	
Standards/Specifications	EN 60950, UL 60950*, UL 508*, EN 61000-6-2, EN 61000-6-3 (* pending)

Switched-Mode Power Supply with Integrated UPS Charger and Controller *EPSITRON®*



- Primary switch mode power supply with integrated charger and controller for uninterruptible power supply (UPS)
- Battery control technology for smooth charging and predictive maintenance applications
- Potential-free contacts provide function monitoring
- Buffer time can be set on-site via rotary switch
- Parameter setting and monitoring via RS-232 interface
- Prepared for class I equipment
- Natural convection cooling when horizontally mounted
- Enclosed for use in switchgear cabinets
- Electrically isolated output voltage (SELV) acc. to EN 60950-1/UL 60950

Description	Item No.	Pack. Unit
Switched-Mode Power Supply, with Integrated UPS Charger and Controller, 24VDC / 5A	**787-1675**	1

Technical Data

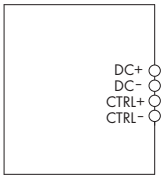
Input:	
Nominal input voltage Vi nom	100 ... 240 VAC; 110 ... 370 VDC
Input voltage range	85 ... 264 VAC
Frequency	45 ... 65 Hz; 0 Hz
Input current Ii	1,1 A at 230 VAC and 5 ADC
Discharge current	1 mA typ.
Inrush current	< 30 A
Output:	
Nominal output voltage Vo nom	24 VDC (SELV)
Output voltage range	23.0 ... 28.5 VDC (mains operation)
	18.5 ... 27.5 VDC (battery operation)
Output current Io	5 A
Adjustment accuracy	1 %
Residual ripple	< 100 mV (peak-peak)
Current limitation	1.1 x Io; TopBoost approx. 24 A
Buffer time	0.5 ...20 min, IPC mode or constant (adjustable)
Switch-on threshold (adjustable)	22 VDC (pre-configured),
	20 ... 25.5 VDC (configurable via
	software)
Final load voltage	26 ... 29.5 VDC temperature-controlled
	(fixed or adjustable)
Charging current	0.3 A ... 0.6 A
Recommended battery modules	787-876, 787-871, 787-872, 787-873
Operational indication	Green LED (DC OK), yellow LED (battery
	mode), red LED (warning/fault)
Signaling	3 x 24 VDC signal output, 25 mA and
	1 x 30 VDC isolated relay contact, 1 A
Remote input	to switch off buffer operation
LineMonitor, parameter setting	via RS-232 serial interface
Efficiency / power losses:	
Efficiency	89 % typ.
Power loss P_V	5.2 W (battery operation, 24 VDC, 5 A) /
	17 W (mains operation,
	230 VAC/24 VDC, 5 A)
Fuse protection:	
Internal fuse	T 4 A / 250 V (input side)
External fuse	Circuit breakers 6 A, 10 A, 16 A,
	characteristic: B or C;
	An external DC fuse is required for the DC
	input voltage

Technical Data

Environmental requirements:	
Ambient operating temperature	-25 °C ... +70 °C;
	Device start at -40 °C (type-tested)
Storage temperature	-25 °C ... +85 °C
Derating	-3 % / K (> +50 °C)
Degree of pollution	2 (acc. to EN 50178)
Climatic category	3K3 (acc. to EN 60721)
Safety and protection:	
Test voltage	
pri.-sec./pri.-gr./sec.-gr.	4.2 kV DC / 2.2 kV DC / 0.7 kV DC
Protection class	I
Reverse voltage protection	yes
Degree of protection	IP20 (acc. to EN 60529)
Feedback voltage	max. 35 VDC
Parallel operation	yes, max. 3 battery modules for buffer time
	extension
Connection and type of mounting:	
Wire connection	Input/Output/Signals:
	WAGO 721 Series
	Interface: WAGO 733 Series
Cross sections	Input/Output/Signals: 0
	.5 mm² ... 10 mm² / AWG 20 ... 10
	Interface:
	0.08 mm² ... 2.5 mm² / AWG 28 ... 12
Strip lengths	Input/Output/Signals:
	13 ... 15 mm / 0.55 in
	Interface: 8 ... 9 mm / 0.33 in
Line length	≤ 3 m (Output, Battery Control)
Type of mounting	DIN-rail mount (EN 60715)
Dimensions and weight:	
Dimensions (mm) W x H x L	60 x 127 x 135.5
	Length from upper-edge of DIN 35 rail
Weight	885 g
Standards and approvals:	
Standards/Specifications	EN 60950, UL 60950, UL 508,
	EN 61204-3, GL *
	(* pending)

EPSITRON® - Lead-Acid (AGM) Battery Modules

Similiar to picture



- Lead-acid Absorbed Glass Mat (AGM) battery module for uninterruptible power supply (UPS)
- Can be connected to both 787-870 UPS Charger and Controller and 787-1675 Power Supply with integrated UPS charger and controller
- Parallel operation provides higher buffer time *
- With built-in NTC K164 (4.7 kOhm) temperature sensor
- DIN 35 carrier rail mounting
- Battery control (from manufacturing no. 216570) detects both battery life and battery type

Description	Item No.	Pack. Unit
Lead-acid Absorbed Glass Mat (AGM) battery module	**787-876**	1

Technical Data

Input:	
Nominal input voltage Vi nom	24 V DC
Output:	
Nominal output voltage Vo nom	24 V DC
Output current Io	max. 7.5 A
Final load voltage	max. 27 V DC (at 25 °C)
Charging current	max. 0.3 A
Capacity	1.2 Ah
Fuse protection:	
Internal fuse	15 AT (Type FK 2)

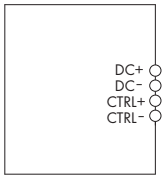
* for parallel connection, please switch battery capacity setting to "OFF" in the UPS charger and controller.

Technical Data

Environmental requirements:	
Ambient operating temperature	-10 °C ... +40 °C
Storage temperature	-20 °C ... +40 °C
Service life	typ. 5/ 4/ 2 years
	at 20 °C/ 30 °C/ 40 °C
Safety and protection:	
Temperature sensor	NTC K164 (4.7 kΩ)
Protection class	III
Degree of protection	IP20 (acc. to EN 60529)
Connection and type of mounting:	
Wire connection	Input/Output: WAGO 231 Series
	Battery Control: WAGO 231 Series
Cross sections	Input/Output:
	0.08 mm² ... 2.5 mm² / AWG 28 ... 12
	Battery Control:
	0.08 mm² ... 2.5 mm² / AWG 28 ... 12
Strip lengths	Input/Output: 8 ... 9 mm / 0.33 in
	Battery Control: 8 ... 9 mm / 0.33 in
Line length	≤ 3 m (Input, Output, Battery Control)
Type of mounting	DIN-rail mount (EN 60715)
Dimensions and weight:	
Dimensions (mm) W x H x L	55 x 153 x 136.5
	Height, incl. female connector,
	Length from upper-edge of DIN 35 rail
Weight	1800 g
Standards and approvals:	
Standards/Specifications	Battery is tested to VdS, UL 508

EPSITRON® - Lead-Acid (AGM) Battery Modules

Similiar to picture



- Lead-acid Absorbed Glass Mat (AGM) battery module for uninterruptible power supply (UPS)
- Can be connected to 787-873 or 787-875 UPS Controller and power supply with integrated UPS charger and controller
- Parallel connection to increase the buffer time*
- Features built-in NTC K164 (4.7 kOhm) temperature sensor
- Battery control (from manufacturing no. 216654) detects both battery life and battery type

Description	Item No.	Pack. Unit
Lead-acid Absorbed Glass Mat (AGM) battery module	**787-871**	1

Technical Data

Input:	
Nominal input voltage Vi nom	24 V DC
Output:	
Nominal output voltage Vo nom	24 V DC
Output current Io	20 A
Final load voltage	max. 27 V DC (at 25 °C)
Charging current	max. 0.8 A
Capacity	3.2 Ah
Fuse protection:	
Internal fuse	25 AT

* for parallel connection, please switch battery capacity setting to "OFF" in the UPS charger and controller.

Technical Data

Environmental requirements:	
Ambient operating temperature	-10°C ... +40°C
Storage temperature	-20 °C ... +40 °C
Service life	typ. 5/ 4/ 2 years
	at 20 °C/ 30 °C/ 40 °C
Safety and protection:	
Temperature sensor	NTC K164 (4.7 kΩ)
Protection class	III
Degree of protection	IP20 acc. to EN 60529
Connection and type of mounting:	
Wire connection	Input/Output: WAGO 231 Series
	Battery Control: WAGO 231 Series
Cross sections	Input/Output:
	0.08 mm² ... 2.5 mm² / AWG 28 ... 12
	Battery Control:
	0.08 mm² ... 2.5 mm² / AWG 28 ... 12
Strip lengths	Input/Output: 8 ... 9 mm / 0.33 in
	Battery Control: 8 ... 9 mm / 0.33 in
Line length	≤ 3 m (Input, Output, Battery Control)
Type of mounting	Screw mount
Dimensions and weight:	
Dimensions (mm) W x H x L	76.2 x 168 x 175.5
Weight	3975 g
Standards and approvals:	
Standards/Specifications	battery is tested to VdS, UL 508

EPSITRON® - Lead-Acid (AGM) Battery Modules

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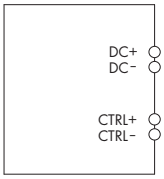

- Lead-acid Absorbed Glass Mat (AGM) battery module for uninterruptible power supply (UPS)
- Can be connected to 787-870 or 787-875 UPS Controller and power supply with integrated UPS charger and controller
- Parallel connection to increase the buffer time*
- Features built-in NTC K164 (4.7 kOhm) temperature sensor
- Battery control (from manufacturing no. 213987) detects both battery life and battery type

Description	Item No.	Pack. Unit
Lead-acid Absorbed Glass Mat (AGM) battery module	**787-872**	1

Technical Data

Input:	
Nominal input voltage Vi nom	24 V DC
Output:	
Nominal output voltage Vo nom	24 V DC
Output current Io	40 A
Final load voltage	max. 27 V DC (at 25 °C)
Charging current	max. 1.8 A
Capacity	7Ah
Fuse protection:	
Internal fuse	2 x 25 AT

* for parallel connection, please switch battery capacity setting to "OFF" in the UPS charger and controller.

Technical Data

Environmental requirements:	
Ambient operating temperature	-10°C ... +40°C
Storage temperature	-20 °C ... +40 °C
Service life	typ. 5/ 4/ 2 years
	at 20 °C/ 30 °C/ 40 °C
Safety and protection:	
Temperature sensor	NTC K164 (4.7 kΩ)
Protection class	III
Degree of protection	IP20 acc. to EN 60529
Connection and type of mounting:	
Wire connection	Input/Output: WAGO 231 Series
	Battery Control: WAGO 231 Series
Cross sections	Input/Output:
	0.08 mm² ... 2.5 mm² / AWG 28 ... 12
	Battery Control:
	0.08 mm² ... 2.5 mm² / AWG 28 ... 12
Strip lengths	Input/Output: 8 ... 9 mm / 0.33 in
	Battery Control: 8 ... 9 mm / 0.33 in
Line length	≤ 3 m (Input, Output, Battery Control)
Type of mounting	Screw mount
Dimensions and weight:	
Dimensions (mm) W x H x L	86 x 239 x 217.5
Weight	6500 g
Standards and approvals:	
Standards/Specifications	battery is tested to VdS, UL 508

EPSITRON® - Lead-Acid (AGM) Battery Modules

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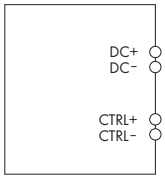


- Lead-acid Absorbed Glass Mat (AGM) battery module for uninterruptible power supply (UPS)
- Can be connected to 787-873 or 787-875 UPS Controller and power supply with integrated UPS charger and controller
- Parallel connection to increase the buffer time*
- Features built-in NTC K164 (4.7 kOhm) temperature sensor
- Battery control (from manufacturing no. 213412) detects both battery life and battery type
- With UL 508 approval (from manufacturing no. 416334)

Description	Item No.	Pack. Unit
Lead-acid Absorbed Glass Mat (AGM) battery module	**787-873**	1

Technical Data

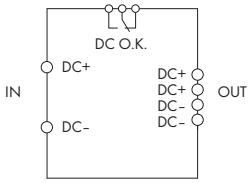
Input:	
Nominal input voltage Vi nom	24 V DC
Output:	
Nominal output voltage Vo nom	24 V DC
Output current Io	40 A
Final load voltage	max. 27 V DC (at 25 °C)
Charging current	max. 3A
Capacity	12 Ah
Fuse protection:	
Internal fuse	2 x 25 AT

* for parallel connection, please switch battery capacity setting to "OFF" in the UPS charger and controller.

Technical Data

Environmental requirements:	
Ambient operating temperature	-10°C ... +40°C
Storage temperature	-20 °C ... +40 °C
Service life	typ. 5/ 4/ 2 years
	at 20 °C/ 30 °C/ 40 °C
Safety and protection:	
Temperature sensor	NTC K164 (4.7 kΩ)
Protection class	III
Degree of protection	IP20 (acc. to EN 60529)
Connection and type of mounting:	
Wire connection	Input/Output: WAGO 831 Series
	Battery Control: WAGO 231 Series
Cross sections	Input/Output:
	0.5 mm² ... 10 mm² / AWG 20 ... 8
	Battery Control:
	0.08 mm² ... 2.5 mm² / AWG 28 ... 12
Strip lengths	Input/Output: 13 ... 15 mm / 0.55 in
	Battery Control: 8 ... 9 mm / 0.33 in
Line length	≤ 3 m (Input, Output, Battery Control)
Type of mounting	Screw mount
Dimensions and weight:	
Dimensions (mm) W x H x L	120.5 x 239 x 217.5
Weight	10830 g
Standards and approvals:	
Standards/Specifications	Battery is tested to VdS, UL 508

EPSITRON® - Capacitive Buffer Modules



- Capacitive buffer module bridges short duration voltage drops
- For uninterruptible power supply
- Potential-free contact for charge condition monitoring

Description	Item No.	Pack. Unit
Capacitive buffer modules, for DIN 35 rail	**787-880**	1

Technical Data

Input:	
Nominal input voltage Vi nom	24 V DC
Input voltage range	20 V ... 30 V DC
Input current Ii	60 mA (no-load running); 1 A (charging); 11 A (max.)
Switch-on threshold (adjustable)	20 V ... 24 V DC
Output:	
Nominal output voltage Vo nom	24 V DC
Output voltage range	Vi - 0.5 V DC (below switch-on threshold); 20.4 V ... 24 V DC (during buffer operation)
Output current Io	10 A
Current limitation	electronic, typ. 11 A
Buffer time	0.06 s ... 7.2 s (depends on load current and switch-on threshold)
Charging time	typ. 5 minutes
Operational indication	LED green (Va > 20 V), LED yellow (charging), LED red (Va < 20 V)
Signaling	1 x floating relay contact 30 V DC, 1 A
Efficiency / power losses:	
Power loss P_v	1.5 W open circuit 6.5 W nominal load

Technical Data

Environmental requirements:	
Ambient operating temperature	-10 °C ... +50°C
Storage temperature	-10 °C ... +60 °C
Service life	typ. 87.600 h (at 25 °C ambient operating temperature); typ. 30.500 h (at 40 °C ambient operating temperature)
Rel. humidity	30 % ... 85 % (no condensation)
Safety and protection:	
Test voltage	500 V DC (terminals to enclosure)
Protection class	III
Reverse voltage protection	yes
Degree of protection	IP20 acc. to EN 60529
Feedback voltage	max. 35 VDC
Parallel operation	yes
Connection and type of mounting:	
Wire connection	Input/Output: WAGO 231 Series Relay: WAGO 231 Series
Cross sections	Input/Output: 0.08 mm² ... 2.5 mm² / AWG 28 ... 12 Relay: 0.08 mm² ... 2.5 mm² / AWG 28 ... 12
Strip lengths	Input/Output: 8 ... 9 mm / 0.33 in Relay: 8 ... 9 mm / 0.33 in
Type of mounting	DIN-rail mounting (EN 60715) in 2 positions
Dimensions and weight:	
Dimensions (mm) W x H x L	57 x 179 x 163 Height from upper-edge of DIN 35 rail
Weight	1000 g
Standards and approvals:	
Standards/Specifications	EN 60950, UL 508, EN 61000-6-2, EN 61000-6-3

EPSITRON® - Capacitive Buffer Modules

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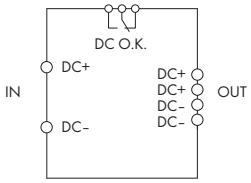


- Capacitive buffer module bridges short duration voltage drops
- For uninterruptible power supply
- Potential-free contact for charge condition monitoring

Description	Item No.	Pack. Unit
Capacitive buffer modules, for DIN 35 rail	**787-881**	1

Technical Data

Input:	
Nominal input voltage Vi nom	24 V DC
Input voltage range	20 V ... 30 V DC
Input current Ii	60 mA (no-load running); 1 A (charging); 22 A (max.)
Switch-on threshold (adjustable)	20 V ... 24 V DC
Output:	
Nominal output voltage Vo nom	24 V DC
Output voltage range	Vi - 1 V DC (below switch-on threshold); 20.4 V ... 24 V DC (during buffer operation)
Output current Io	20 A
Current limitation	electronic, typ. 22 A
Buffer time	0.17 s ... 16.5 s (depends on load current and switch-on threshold)
Charging time	typ. 5 minutes
Operational indication	LED green (Va > 20 V), LED yellow (charging), LED red (Va < 20 V)
Signaling	1 x floating relay contact 30 V DC, 1 A
Efficiency / power losses:	
Power loss P_V	1.5 W open circuit 15 W nominal load

Technical Data

Environmental requirements:	
Ambient operating temperature	-10 °C ... +50°C
Storage temperature	-10 °C ... +60 °C
Service life	typ. 87.600 h (at 25 °C ambient operating temperature); typ. 30.500 h (at 40 °C ambient operating temperature)
Rel. humidity	30 % ... 85 % (no condensation)
Safety and protection:	
Test voltage	500 V DC (terminals to enclosure)
Protection class	III
Reverse voltage protection	yes
Degree of protection	IP20 acc. to EN 60529
Feedback voltage	max. 35 VDC
Parallel operation	yes
Connection and type of mounting:	
Wire connection	Input/Output: WAGO 831 Series Relay: WAGO 231 Series
Cross sections	Input/Output: 0.5 mm² ... 10 mm² / AWG 20 ... 8 Relay: 0.08 mm² ... 2.5 mm² / AWG 28 ... 12
Strip lengths	Input/Output: 13 ... 15 mm / 0.55 in Relay: 8 ... 9 mm / 0.33 in
Type of mounting	DIN-rail mounting (EN 60715) in 2 positions
Dimensions and weight:	
Dimensions (mm) W x H x L	57 x 179 x 181 Height from upper-edge of DIN 35 rail
Weight	1000 g
Standards and approvals:	
Standards/Specifications	EN 60950, UL 508, EN 61000-6-2, EN 61000-6-3

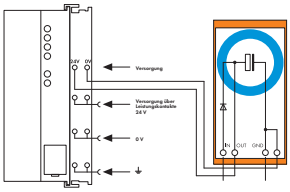
Back-Up Capacitor Module

	Back-up capacitor module smoothes unstable 24 VDC power supplies Mounting carrier for DIN 35 rail	

This module is equipped with a capacitor which smoothes unstable 24 VDC power supplies in case the voltage tolerances mentioned in our data sheets cannot be ensured. Reasons for voltage transients could be:

- Voltage disconnections (switching transients) on primary side
- Overloads on secondary side
- Switching of inductive or capacitive loads

The back-up capacitor module is connected between the 24 V power supply and the electronic device which has to be protected.
Notice:
If using a non-filtered single-phase power supply, the capacitor causes a voltage increase.



Description	Item No.	Pack. Unit	
Back-up capacitor module	**288-824**	1	

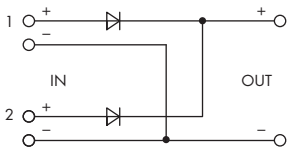
Technical Data

Nominal voltage	24 VDC (+25 %)	
Nominal current	1 A	
Nominal capacity	10000 µF	
Weight	104.4 g	
Dimensions (mm) W x H x L	38 x 81 x 85	
	Height from upper-edge of DIN 35 rail	
Wire connection	CAGE CLAMP® (236 Series)	
Cross sections	0.08 … 2.5 mm² / AWG 28 … 12	
Stripped lengths	5 … 6 mm / 0.22 in	

Accessories

WMB Multi marking system for mounting carrier	see from page 506	
Marker strips for mounting carrier	white 709-198 / transparent 709-196	

EPSITRON® - Redundancy Module



- Redundancy module with 2 inputs for decoupling 2 power supplies
- For redundant or uninterruptible power supply
- With potential-free contact for input voltage monitoring

Description	Item No.	Pack. Unit
Redundancy Module	**787-885**	1
24 VDC, 2 x 20 A / 1 x 40 A		

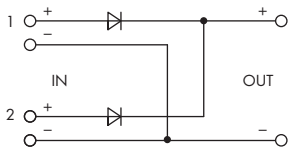
Technical Data

Input:	
Nominal input voltage Vi nom	2 x 24 V DC
Input voltage range	18 V ... 30 V DC
Input current Ii	2 x 20 A, max. 1 x 40 A
Output:	
Nominal output voltage Vo nom	24 V DC
Output voltage range	Ve - 1 V DC
Output current Io	20 A, max. 40 A
Operational indication	LED green (Vo), 2 x LED yellow (Vi)
Signaling	1 x floating relay contact 30 V DC, 1 A
Efficiency / power losses:	
Efficiency	97 % typ.
Power loss P_V	1.5 W open circuit
	14 W nominal load (20 A) /
	26 W nominal load (40 A)
Fuse protection:	
Internal fuse	no

Technical Data

Environmental requirements:	
Ambient operating temperature	-10 °C ... +60°C
Storage temperature	-25 °C ... +85 °C
Rel. humidity	30 % ... 85 % (no condensation)
Safety and protection:	
Test voltage	500 V DC (terminals to enclosure)
Protection class	III
Reverse voltage protection	yes
Degree of protection	IP20 (acc. to EN 60529)
Feedback voltage	max. 33 VDC
Parallel operation	yes
Connection and type of mounting:	
Wire connection	Input/Output: WAGO 831 Series
	Relay: WAGO 231 Series
Cross sections	Input/Output:
	0.5 mm² ... 10 mm² / AWG 20 ... 8
	Relay:
	0.08 mm² ... 2.5 mm² / AWG 28 ... 12
Strip lengths	Input/Output: 13 ... 15 mm / 0.55 in
	Relay: 8 ... 9 mm / 0.33 in
Type of mounting	DIN-rail mounting (EN 60715) in
	2 positions
Dimensions and weight:	
Dimensions (mm) W x H x L	40 x 163 x 181
	Height from upper-edge of DIN 35 rail,
	T=127mm without pluggable female
Weight	870 g
Standards and approvals:	
Standards/Specifications	EN 60950, UL 60950, UL 508,
	EN 61000-6-2, EN 61000-6-3

EPSITRON® - Redundancy Module



- Redundancy module with 2 inputs for decoupling 2 power supplies
- For redundant or uninterruptible power supply
- With potential-free contact for input voltage monitoring

Description	Item No.	Pack. Unit
Redundancy Module	**787-886**	1
48 VDC, 2 x 20 A / 1 x 40 A		

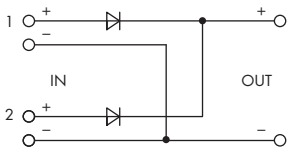
Technical Data

Input:	
Nominal input voltage Vi nom	2 x 48 V DC
Input voltage range	36 V ... 54 V DC
Input current Ii	2 x 20 A, max. 1 x 40 A
Output:	
Nominal output voltage Vo nom	48 V DC
Output voltage range	Ve - 1 V DC
Output current Io	20 A, max. 40 A
Operational indication	LED green (Vo), 2 x LED yellow (Vi)
Signaling	1 x floating relay contact 30 V DC, 1 A
Efficiency / power losses:	
Efficiency	96 % typ.
Power loss P_v	1.7 W (48 VDC/no load) /
	20 W (48 VDC/rated load) (20 A) /
	40 W (48 VDC/rated load) (40 A)
Fuse protection:	
Internal fuse	no

Technical Data

Environmental requirements:	
Ambient operating temperature	-10 °C ... +60°C
Storage temperature	-25 °C ... +85 °C
Rel. humidity	30 % ... 85 % (no condensation)
Safety and protection:	
Test voltage	500 V DC (terminals to enclosure)
Protection class	III
Reverse voltage protection	yes
Degree of protection	IP20 (acc. to EN 60529)
Feedback voltage	max. 60 VDC
Parallel operation	yes
Connection and type of mounting:	
Wire connection	Input/Output: WAGO 831 Series
	Relay: WAGO 231 Series
Cross sections	Input/Output:
	0.5 mm² ... 10 mm² / AWG 20 ... 8
	Relay:
	0.08 mm² ... 2.5 mm² / AWG 28 ... 12
Strip lengths	Input/Output: 13 ... 15 mm / 0.55 in
	Relay: 8 ... 9 mm / 0.33 in
Type of mounting	DIN-rail mounting (EN 60715) in
	2 positions
Dimensions and weight:	
Dimensions (mm) W x H x L	40 x 181 x 163
	Length from upper-edge of DIN 35 rail
Weight	860 g
Standards and approvals:	
Standards/Specifications	EN 60950, UL 60950*, UL 508*,
	EN 61000-6-2, EN 61000-6-3
	(* pending)

EPSITRON® - Redundancy Module



- Diode redundancy module with 2 inputs for decoupling 2 power supplies
- For redundant and fail-safe power supply
- Same profile as *EPSITRON*® ECO Power Supplies
- Connects to power supplies with electrically isolated output voltage (SELV) acc. to EN 60950-1/UL 60950-1

Description	Item No.	Pack. Unit
Diode Redundancy Module 24 VDC, 12.5 A	**787-783**	1

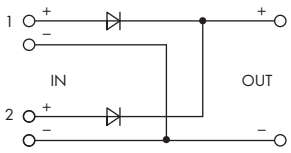
Technical Data

Input:	
Nominal input voltage $V_{i\ nom}$	2 x 24 VDC
Input voltage range	2 x 9 ... 54 VDC
Input current I_i	max. 2 x 12.5 ADC
Output:	
Nominal output voltage $V_{o\ nom}$	24 VDC
Output voltage range	9 ... 54 VDC
Voltage drop	0.6 V (input/output)
Output current I_o	max. 25 ADC
Operational indication	2 x LED green (V_i > 7.5 VDC), 1 x LED green (V_o > 7.5 VDC)
Output power	≤ 1350 W
Efficiency/Power losses:	
Efficiency	≥ 96 %
Power loss P_V	12.5 W (nominal load)
Environmental Requirements:	
Ambient operating temperature	-25 °C ... +70 °C
Storage temperature	-40 °C ... +85 °C
Relative humidity	≤ 95 % (no condensation)
Derating	-2.66 %/K (55 °C < T_{amb} ≤ 70 °C)
Temperature coefficient	± 0.03 %/K (0 °C < T_{amb} < 50 °C)
Degree of pollution	2 (acc. to EN 50178)
Climatic category	3K3 (acc. to EN 60721, except for low air pressure)
Vibration resistance	0.7 g (acc. to EN 60068-2-6)
Shock resistance	15 g (acc. to EN 60068-2-27)

Technical Data

Safety and protection:	
Test voltage	0.5 kV (input – housing); 0.5 kV (output – housing)
Protection class	Prepared for class I equipment
Degree of protection	IP20 acc. to EN 60529
Overvoltage protection	no
Short circuit protection	no
No-load proof	yes
Feedback voltage	60 V
Parallel operation	yes
MTBF	> 10 Mio. h (acc. to IEC 61709)
Connection and type of mounting:	
Wire connection	CAGE CLAMP® (WAGO 2706 Series)
Cross sections	solid/fine-stranded: 0.5 ... 6 mm² / AWG 20 ... 10
Strip lengths	11 ... 12 mm / 0.43 ... 0.47 in
Type of mounting	DIN-rail mounting (EN 60715)
Dimensions and weight:	
Dimensions (mm) W x H x L	50 x 130 x 92
	Length from upper-edge of DIN rail
Weight	340 g
Standards and approvals:	
Standards/Specifications	UL 508 (pending)

EPSITRON® - Redundancy Module



- Diode redundancy module with 2 inputs for decoupling 2 power supplies
- For redundant and fail-safe power supply
- Same profile as *EPSITRON*® ECO Power Supplies
- Connects to power supplies with electrically isolated output voltage (SELV) acc. to EN 60950-1/UL 60950-1

Description	Item No.	Pack. Unit
Diode Redundancy Module 24 VDC, 40 A	**787-785**	1

Technical Data

Input:	
Nominal input voltage $V_{i\,nom}$	2 x 24 VDC
Input voltage range	2 x 9 ... 54 VDC
Input current I_i	max. 2 x 40 ADC
	(in total max. 76 ADC)
Output:	
Nominal output voltage $V_{o\,nom}$	24 VDC
Output voltage range	9 ... 54 VDC
Voltage drop	0.6 V (input/output)
Output current I_o	max. 76 ADC
Operational indication	2 x LED green (V_i > 7.5 VDC),
	1 x LED green (V_o > 7.5 VDC)
Output power	≤ 4104 W
Efficiency/Power losses:	
Efficiency	≥ 97 %
Power loss P_V	29.7 W (nominal load)
Environmental Requirements:	
Ambient operating temperature	-25 °C ... +70 °C
Storage temperature	-40 °C ... +85 °C
Relative humidity	≤ 95 % (no condensation)
Derating	-2.66 %/K (55 °C < T_{amb} ≤ 70 °C)
Temperature coefficient	± 0.03 %/K (0 °C < T_{amb} < 50 °C)
Degree of pollution	2 (acc. to EN 50178)
Climatic category	3K3 (acc. to EN 60721, except for low air
	pressure)
Vibration resistance	0.7 g (acc. to EN 60068-2-6)
Shock resistance	15 g (acc. to EN 60068-2-27)

Technical Data

Safety and protection:	
Test voltage	0.5 kV (input – housing);
	0.5 kV (output – housing)
Protection class	Prepared for class I equipment
Degree of protection	IP20 acc. to EN 60529
Overvoltage protection	no
Short circuit protection	no
No-load proof	yes
Feedback voltage	60 V
Parallel operation	yes
MTBF	> 10 Mio. h (acc. to IEC 61709)
Connection and type of mounting:	
Wire connection	CAGE CLAMP® (WAGO 2716 Series)
Cross sections	solid/fine-stranded:
	1.5 ... 16 mm² / AWG 16 ... 6
Strip lengths	12 ... 13 mm / 0.47 ... 0.51 in
Type of mounting	DIN-rail mounting (EN 60715)
Dimensions and weight:	
Dimensions (mm) W x H x L	83 x 130 x 153
	Length from upper-edge of DIN rail
Weight	960 g
Standards and approvals:	
Standards/Specifications	UL 508 (pending)

Electronic Circuit Breaker
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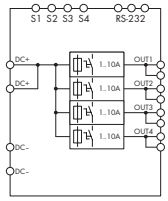


- Electronic circuit breaker with 4 channels, parametrizable
- Time-delayed switching of channels
- Floating switch contact
- Current and voltage monitoring via RS-232 interface and LCD
- Watchdog functions with active signal ports

Description	Item No.	Pack. Unit
Electronic Circuit Breaker, 24 VDC / 4 x 10 A	**787-862**	1

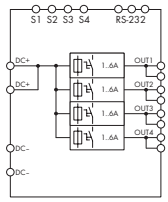
Technical Data

Input:	
Nominal input voltage Vi nom	24 V DC
Input voltage range	18 ... 30 V DC
Output:	
Nominal output voltage Vo nom	4 x 24 V DC
Nominal current	4 x 1 ... 10 A DC
	(adjustable for each channel in 1 A steps)
Voltage drop	140 mV at 6 A, 240 mV at 10 A
Trip time	100 s (100 ms .. 600 s; adjustable)
Switch-on capacity	max. 20,000 µF
Switch-on behavior	time-delayed channel switching (250 ms
	each)
Active current limitation	no
Operational indication	LED green (all channels o.k.),
	LED yellow (warning),
	LED red (at least one channel has tripped)
Signaling	LCD, 4 x signal output 24 V DC,
	25 mA and 1 x floating relay contact
	30 V DC, 1 A
Remote input	Reactivation of all tripped channels via
	18 V ... 30 V DC impulse for min. 50 ms
LineMonitor, parameter setting	via LCD and RS-232 serial interface
Efficiency / power losses:	
Efficiency	96 % typ.
Power loss P_V	2 W (stand-by) / 12 W (rated load)
Fuse protection:	
Internal fuse	15 AT

Technical Data

Environmental requirements:	
Ambient operating temperature	-10 °C ... +60°C
Storage temperature	-25 °C ... +85 °C
Rel. humidity	30 % ... 85 % (no condensation)
Safety and protection:	
Test voltage	500 V DC (terminals to enclosure)
Protection class	III
Reverse voltage protection	no
Degree of protection	IP20 acc. to EN 60529
Overload protection	via suppressor diode at input
Feedback voltage	max. 33 VDC
Series connection of several devices	not permitted
Parallel operation of single channels	not permitted
Connection and type of mounting:	
Wire connection	Input: WAGO 831 Series
	Output: WAGO 231 Series
Cross sections	Input:
	0.5 mm² ... 10 mm² / AWG 20 ... 8
	Output:
	0.08 mm² ... 2.5 mm² / AWG 28 ... 12
Strip lengths	Input: 13 ... 15 mm / 0.55 in
	Output: 8 ... 9 mm / 0.33 in
Type of mounting	DIN-rail mounting (EN 60715) in
	2 positions
Dimensions and weight:	
Dimensions (mm) W x H x L	40 x 171 x 163
	Height from upper-edge of DIN 35 rail
Weight	800 g
Standards and approvals:	
Standards/Specifications	EN 60950, UL 508, EN 61000-6-2,
	EN 61000-6-3

Electronic Circuit Breaker
EPSITRON®



- Electronic circuit breaker with 4 channels, parametrizable
- Time-delayed switching of channels
- Floating switch contact
- Current and voltage monitoring via RS-232 interface and LCD
- Watchdog functions with active signal ports

Description	Item No.	Pack. Unit
Electronic Circuit Breaker, 24 VDC / 4 x 6 A	**787-860**	1

Technical Data

Input:	
Nominal input voltage Vi nom	24 V DC
Input voltage range	18 ... 30 V DC
Output:	
Nominal output voltage Vo nom	4 x 24 V DC
Nominal current	4 x 1 ... 6 A DC
	(adjustable for each channel in 1 A steps)
Voltage drop	140 mV at 6 A
Trip time	100 s (100 ms .. 600 s; adjustable)
Switch-on capacity	max. 20,000 µF
Switch-on behavior	time-delayed channel switching (250 ms each)
Active current limitation	no
Operational indication	LED green (all channels o.k.), LED yellow (warning), LED red (at least one channel has tripped)
Signaling	LCD, 4 x signal output 24 V DC, 25 mA and 1 x floating relay contact 30 V DC, 1 A
Remote input	Reactivation of all tripped channels via 18 V ... 30 V DC impulse for min. 50 ms
LineMonitor, parameter setting	via LCD and RS-232 serial interface
Efficiency / power losses:	
Efficiency	96 % typ.
Power loss P_v	2 W (stand-by) / 5.5 W (rated load)
Fuse protection:	
Internal fuse	6.3 AT

Technical Data

Environmental requirements:	
Ambient operating temperature	-10 °C ... +60°C
Storage temperature	-25 °C ... +85 °C
Rel. humidity	30 % ... 85 % (no condensation)
Safety and protection:	
Test voltage	500 V DC (terminals to enclosure)
Protection class	III
Reverse voltage protection	no
Degree of protection	IP20 acc. to EN 60529
Overload protection	via suppressor diode at input
Feedback voltage	max. 33 VDC
Series connection of several devices	not permitted
Parallel operation of single channels	not permitted
Connection and type of mounting:	
Wire connection	Input: WAGO 831 Series Output: WAGO 231 Series
Cross sections	Input: 0.5 mm² ... 10 mm² / AWG 20 ... 8 Output: 0.08 mm² ... 2.5 mm² / AWG 28 ... 12
Strip lengths	Input: 13 ... 15 mm / 0.55 in Output: 8 ... 9 mm / 0.33 in
Type of mounting	DIN-rail mounting (EN 60715) in 2 positions
Dimensions and weight:	
Dimensions (mm) W x H x L	40 x 171 x 163 Height from upper-edge of DIN 35 rail
Weight	800 g
Standards and approvals:	
Standards/Specifications	EN 60950, UL 508, EN 61000-6-2, EN 61000-6-3

Electronic Circuit Breaker with Active Current Limitation
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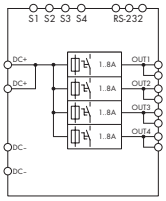


- Electronic circuit breaker with 4 channels, parametrizable
- Features active current limitation, reliably prevents voltage drops
- Time-delayed switching of channels
- Current and voltage monitoring via RS-232 interface and LCD
- Watchdog functions with active signal ports

Description	Item No.	Pack. Unit
Electronic Circuit Breaker, 24 VDC / 4 x 8 A	**787-861**	1

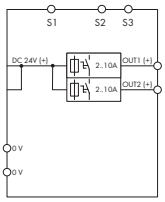
Technical Data

Input:	
Nominal input voltage Vi nom	24 V DC
Input voltage range	18 ... 30 V DC
Output:	
Nominal output voltage Vo nom	4 x 24 V DC
Nominal current	4 x 1 ... 8 A DC
	(adjustable for each channel in 1 A steps)
Voltage drop	140 mV at 8 A
Trip time	100 ms (100 ms .. 1.5 s;
	adjustable, depending on nominal current)
Switch-on capacity	max. 20,000 µF
Switch-on behavior	time-delayed channel switching (250 ms
	each)
Trip current	1.1 x nominal current typ.
Active current limitation	yes
Current limitation	1.5 x nominal current typ.
Operational indication	LED green (all channels o.k.),
	LED yellow (warnings),
	LED red (at least one channel has tripped)
Signaling	LCD, 4 x signal output 24 V DC, 25 mA
LineMonitor, parameter setting	via LCD and RS-232 serial interface
Efficiency / power losses:	
Efficiency	96 % typ.
Power loss P_V	2 W (stand-by) / 8.2 W (rated load)
Fuse protection:	
Internal fuse	15 AT

Technical Data

Environmental requirements:	
Ambient operating temperature	-10 °C ... +60°C
Storage temperature	-25 °C ... +85 °C
Rel. humidity	30 % ... 85 % (no condensation)
Safety and protection:	
Test voltage	500 V DC (terminals to enclosure)
Protection class	III
Reverse voltage protection	no
Degree of protection	IP20 acc. to EN 60529
Overload protection	via suppressor diode at input
Feedback voltage	max. 33 VDC
Series connection of several devices	not permitted
Parallel operation of single channels	not permitted
Connection and type of mounting:	
Wire connection	Input: WAGO 831 Series
	Output: WAGO 231 Series
Cross sections	Input:
	0.5 mm² ... 10 mm² / AWG 20 ... 8
	Output:
	0.08 mm² ... 2.5 mm² / AWG 28 ... 12
Strip lengths	Input: 13 ... 15 mm / 0.55 in
	Output: 8 ... 9 mm / 0.33 in
Type of mounting	DIN-rail mounting (EN 60715) in
	2 positions
Dimensions and weight:	
Dimensions (mm) W x H x L	40 x 171 x 163
	Height from upper-edge of DIN 35 rail
Weight	800 g
Standards and approvals:	
Standards/Specifications	EN 60950, UL 508, EN 61000-6-2,
	EN 61000-6-3

Electronic Circuit Breaker
EPSITRON®



- Space-saving electronic circuit breaker with 2 channels
- 2–10 A nominal current, adjustable for each channel via sealable selector switch
- Switch-on capacity > 50,000 µF per channel
- One illuminated three-colored button per channel simplifies switching (on/off), resetting, and on-site diagnostics
- Time-delayed switching of channels
- Tripped message (group signal)
- Status message for each channel via pulse sequence
- Remote input resets tripped channels or switches on/off any number of channels via pulse sequence

Description	Item No.	Pack. Unit
Electronic circuit breaker, 24 VDC / 2 x 10 A	**787-1662**	1

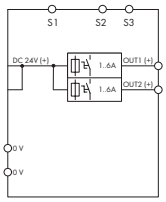
Technical Data

Input:	
Nominal input voltage $V_{i\,nom}$	24 VDC
Input voltage range	18 ... 30 VDC
Output:	
Nominal output voltage $V_{o\,nom}$	2 x 24 VDC
Nominal current	max. 2 x 10 ADC
	(2, 3, 4, 6, 8, 10 A adjustable for each
	channel via selector switch)
Voltage drop	200 mV at 10 A
Trip time	Load-dependent (16 ms ... 100 s)
Switch-on capacity	> 50,000 µF per channel
Switch-on behavior	Time-delayed channel switching
	(load-dependent, min. 50 ms / max. 5 s)
Active current limitation	no
Operational indication	Green LED (O.K. channel),
	Red LED (tripped channel)
Signaling	2 x LED (green/red/orange)
Remote input	Reactivation of all tripped channels via
	15–30 VDC pulse for min. 500 ms.
	Switching on/off any number of channels
	via pulse sequence.
Efficiency/Power losses:	
Efficiency	99 % typ.
Power loss P_V	5.5 W (nominal load)
Fuse protection:	
Internal fuse	15 AT per channel

Technical Data

Environmental requirements:	
Ambient operating temperature	-25 °C ... +70 °C
Storage temperature	-25 °C ... +85 °C
Rel. humidity	30% ... 85% (no condensation permissible)
Derating	no derating
Safety and protection:	
Test voltage	500 VDC (connectors to housing)
Protection class	III
Reverse voltage protection	no
Degree of protection	IP20 (acc. to EN 60529)
Overvoltage protection	via 33 V suppressor diode at input
Feedback voltage	max. 35 VDC
Series connection of several devices	not permitted
Parallel operation of single channels	not permitted
Connection and type of mounting:	
Wire connection	Input (+): WAGO 831 Series
	Input (–), output, signaling:
	WAGO 721 Series
Cross sections	Input (+):
	0.5 mm² ... 10 mm² / AWG 20 ... 8
	Input (–), output, signaling:
	0.08 mm² ... 2.5 mm² / AWG 28 ... 12
Strip lengths	Input (+): 13 ... 15 mm / 0.55 in
	Input (–), output, signaling:
	8 ... 9 mm / 0.33 in
Type of mounting	DIN-rail mount (EN 60715)
Dimensions and weight:	
Dimensions (mm) W x H x L	45 x 90 x 115.5
	Length from upper-edge of DIN 35 rail
Weight	200 g
Standards and approvals:	
Standards/Specifications	UL 508, UL 2367, GL, EN 60950,
	EN 61000-6-2, EN 61000-6-3

Electronic Circuit Breaker
EPSITRON®



- Space-saving electronic circuit breaker with 4 channels
- 1–6 A nominal current, adjustable for each channel via sealable selector switch
- Switch-on capacity > 50,000 µF per channel
- One illuminated three-colored button per channel simplifies switching (on/off), resetting, and on-site diagnostics
- Time-delayed switching of channels
- Tripped message (group signal)
- Status message for each channel via pulse sequence
- Remote input resets tripped channels or switches on/off any number of channels via pulse sequence

Description	Item No.	Pack. Unit
Electronic circuit breaker, 24 VDC / 2 x 6 A	**787-1662/106-000**	1

Technical Data

Input:	
Nominal input voltage $V_{i\,nom}$	24 VDC
Input voltage range	18 ... 30 VDC
Output:	
Nominal output voltage $V_{o\,nom}$	2 x 24 VDC
Nominal current	max. 2 x 6 ADC
	(1, 2, 3, 4, 5, 6 A adjustable for each
	channel via selector switch)
Voltage drop	120 mV at 6 A
Trip time	Load-dependent (16 ms ... 100 s)
Switch-on capacity	> 50,000 µF per channel
Switch-on behavior	Time-delayed channel switching
	(load-dependent, min. 50 ms / max. 5 s)
Active current limitation	no
Operational indication	Green LED (O.K. channel),
	Red LED (tripped channel)
Signaling	2 x LED (green/red/orange)
Remote input	Reactivation of all tripped channels via
	15–30 VDC pulse for min. 500 ms.
	Switching on/off any number of channels
	via pulse sequence.
Efficiency/Power losses:	
Efficiency	99 % typ.
Power loss P_V	2.5 W (nominal load)
Fuse protection:	
Internal fuse	15 AT per channel

Technical Data

Environmental requirements:	
Ambient operating temperature	-25 °C ... +70 °C
Storage temperature	-25 °C ... +85 °C
Rel. humidity	30% ... 85% (no condensation permissible)
Derating	no derating
Safety and protection:	
Test voltage	500 VDC (connectors to housing)
Protection class	III
Reverse voltage protection	no
Degree of protection	IP20 (acc. to EN 60529)
Overvoltage protection	via 33 V suppressor diode at input
Feedback voltage	max. 35 VDC
Series connection of several devices	not permitted
Parallel operation of single channels	not permitted
Connection and type of mounting:	
Wire connection	Input (+): WAGO 831 Series
	Input (–), output, signaling:
	WAGO 721 Series
Cross sections	Input (+):
	0.5 mm² ... 10 mm² / AWG 20 ... 8
	Input (–), output, signaling:
	0.08 mm² ... 2.5 mm² / AWG 28 ... 12
Strip lengths	Input (+): 13 ... 15 mm / 0.55 in
	Input (–), output, signaling:
	8 ... 9 mm / 0.33 in
Type of mounting	DIN-rail mount (EN 60715)
Dimensions and weight:	
Dimensions (mm) W x H x L	45 x 90 x 115.5
	Length from upper-edge of DIN 35 rail
Weight	170 g
Standards and approvals:	
Standards/Specifications	UL 508, UL 2367, GL, EN 60950,
	EN 61000-6-2, EN 61000-6-3

Electronic Circuit Breaker with Active Current Limitation
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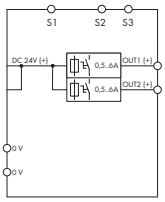

- Space-saving electronic circuit breaker with 2 channels
- 0.5–6 A nominal current, adjustable for each channel via sealable selector switch
- Active current limitation
- Switch-on capacity > 65000 µF per channel
- One illuminated three-colored button per channel simplifies switching (on/off), resetting, and on-site diagnostics
- Time-delayed switching of channels
- Tripped message (group signal)
- Status message for each channel via pulse sequence
- Remote input resets tripped channels or switches on/off any number of channels via pulse sequence

Description	Item No.	Pack. Unit
Electronic circuit breaker, 24 VDC / 2 x 6 A	**787-1662/006-1000**	1

Technical Data

Input:	
Nominal input voltage $V_{i\,nom}$	24 VDC
Input voltage range	18 ... 30 VDC
Output:	
Nominal output voltage $V_{o\,nom}$	2 x 24 VDC
Nominal current	max. 2 x 6 ADC
	(0.5, 1, 2, 3, 4, 6 A adjustable for each
	channel via selector switch)
Voltage drop	145 mV at 6 A
Trip time	Load-dependent (16 ms ... 5 s)
Switch-on capacity	> 65,000 µF per channel
Switch-on behavior	Time-delayed channel switching
	(load-dependent, min. 50 ms / max. 5 s)
Active current limitation	yes
Operational indication	Green LED (O.K. channel),
	Red LED (tripped channel)
Signaling	2 x LED (green/red/orange)
Remote input	Reactivation of all tripped channels via
	15–30 VDC pulse for min. 500 ms.
	Switching on/off any number of channels
	via pulse sequence.
Efficiency/Power losses:	
Efficiency	99 % typ.
Power loss P_V	2.5 W (nominal load)
Fuse protection:	
Internal fuse	15 AT per channel

Technical Data

Environmental requirements:	
Ambient operating temperature	-25 °C ... +70 °C
Storage temperature	-25 °C ... +85 °C
Rel. humidity	30% ... 85% (no condensation permissible)
Derating	no derating
Safety and protection:	
Test voltage	500 VDC (connectors to housing)
Protection class	III
Reverse voltage protection	no
Degree of protection	IP20 (acc. to EN 60529)
Overvoltage protection	via 33 V suppressor diode at input
Feedback voltage	max. 35 VDC
Series connection of several devices	not permitted
Parallel operation of single channels	not permitted
Connection and type of mounting:	
Wire connection	Input (+): WAGO 831 Series
	Input (–), output, signaling:
	WAGO 721 Series
Cross sections	Input (+):
	0.5 mm² ... 10 mm² / AWG 20 ... 8
	Input (–), output, signaling:
	0.08 mm² ... 2.5 mm² / AWG 28 ... 12
Strip lengths	Input (+): 13 ... 15 mm / 0.55 in
	Input (–), output, signaling:
	8 ... 9 mm / 0.33 in
Type of mounting	DIN-rail mount (EN 60715)
Dimensions and weight:	
Dimensions (mm) W x H x L	45 x 90 x 115.5
	Length from upper-edge of DIN 35 rail
Weight	170 g
Standards and approvals:	
Standards/Specifications	UL 508, UL 2367, GL, EN 60950,
	EN 61000-6-2, EN 61000-6-3

Electronic Circuit Breaker
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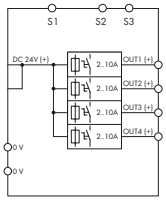

- Compact 4-channel electronic circuit breaker
- 2–10 A nominal current, adjustable for each channel via sealable selector switch
- Switch-on capacity > 50000 µF per channel
- One illuminated three-colored button per channel simplifies switching (on/off), resetting and on-site diagnosing
- Time-delayed switching of channels
- Tripped message (group signal)
- Status message for each channel via pulse sequence
- Remote input resets tripped channels or switching on/off any number of channels via pulse sequence

Description	Item No.	Pack. Unit
Electronic Circuit Breaker, 24 VDC / 4 x 10 A	**787-1664**	1

Technical Data

Input:	
Nominal input voltage Vi nom	24 V DC
Input voltage range	18 … 30 V DC
Output:	
Nominal output voltage Vo nom	4 x 24 V DC
Nominal current	max. 4 x 10 ADC
	(2, 3, 4, 6, 8, 10 A adjustable for each
	channel via selector switch)
Voltage drop	200 mV at 10 A
Trip time	Load-dependent (20 ms – 100 s)
Switch-on capacity	> 50000 µF per channel
Switch-on behavior	Time-delayed channel switching
	(50 – 100 ms each)
Active current limitation	no
Operational indication	Green LED (channel OK),
	Red LED (channel triggered)
Signaling	4 x LED (green/red/orange)
Remote input	Reactivation of all tripped channels via
	15 – 30 VDC pulse for min. 500 ms.
	Switching on/off any number of channels
	via pulse sequence.
Efficiency / power losses:	
Efficiency	99 % typ.
Power loss P_V	1.3 W (stand-by) / 20 W (nominal load)
Fuse protection:	
Internal fuse	15 AT per channel

Technical Data

Environmental requirements:	
Ambient operating temperature	-25 °C … +70 °C
Storage temperature	-25 °C … +85 °C
Rel. humidity	30 % … 85 % (no condensation)
Derating	≥ +50 °C: see instruction manual
Safety and protection:	
Test voltage	500 V DC (terminals to enclosure)
Protection class	III
Reverse voltage protection	no
Degree of protection	IP20 (acc. to EN 60529)
Overload protection	via 33 V suppressor diode at input
Feedback voltage	max. 35 VDC
Series connection of several devices	not permitted
Parallel operation of single channels	not permitted
Connection and type of mounting:	
Wire connection	Input (+): WAGO 831 Series
	Input (–), Output, Signalising:
	WAGO 721 Series
Cross sections	Input (+):
	0.5 mm² … 10 mm² / AWG 20 … 8
	Input (–), Output, Signalising:
	0.08 mm² … 2.5 mm² / AWG 28 … 12
Strip lengths	Input (+): 13 … 15 mm / 0.55 in
	Input (–), Output, Signalising:
	8 … 9 mm / 0.33 in
Type of mounting	DIN-rail mount (EN 60715)
Dimensions and weight:	
Dimensions (mm) W x H x L	45 x 90 x 115.5
	Length from upper-edge of DIN 35 rail
Weight	170 g
Standards and approvals:	
Standards/Specifications	UL 508, UL 2367, GL, EN 60950,
	EN 61000-6-2, EN 61000-6-3

Electronic Circuit Breaker
EPSITRON®

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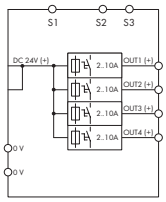

- Space-saving electronic circuit breaker with 4 channels
- 2–6 A nominal current, adjustable for each channel via sealable selector switch; factory preset: 2 A, switched off
- Switch-on capacity > 50000 µF per channel
- One illuminated three-colored button per channel simplifies switching (on/off), resetting, and on-site diagnosis
- Time-delayed switching of channels
- Tripped and switched off message (common group signal S3)
- Status message for each channel via pulse sequence
- Remote input resets tripped channels or switches on/off any number of channels via pulse sequence

Description	Item No.	Pack. Unit
Electronic Circuit Breaker, 24 VDC / 4 x 10 A	**787-1664/000-004**	1

Technical Data

Input:	
Nominal input voltage $V_{i\,nom}$	24 VDC
Input voltage range	18 ... 30 VDC
Output:	
Nominal output voltage $V_{o\,nom}$	4 x 24 VDC
Nominal current	max. 4 x 10 ADC
	(2, 3, 4, 6, 8, 10 A adjustable for each
	channel via selector switch)
Factory preset	2 ADC, switched off
Voltage drop	200 mV at 10 A
Trip time	Load-dependent (20 ms – 100 s)
Switch-on capacity	> 50000 µF per channel
Switch-on behavior	Time-delayed channel switching
	(50 – 100 ms each)
Active current limitation	no
Operational indication	Green LED (channel OK),
	Red LED (channel triggered)
Signaling	4 x LED (green/red/orange)
Remote input	Reactivation of all tripped channels via
	15–30 VDC pulse for min. 500 ms.
	Switching on/off any number of channels
	via pulse sequence.
Efficiency/Power Losses:	
Efficiency	99 % typ.
Power loss P_v	1.3 W (stand-by) / 20 W (nominal load)
Fuse Protection:	
Internal fuse	15 AT per channel

Technical Data

Environmental Requirements:	
Ambient operating temperature	-25 °C ... +70 °C
Storage temperature	-25 °C ... +85 °C
Relative humidity	30% ... 85% (no condensation permissible)
Derating	≥ +50 °C: see instruction manual
Safety and protection:	
Test voltage	500 VDC (connectors to housing)
Protection class	III
Reverse voltage protection	no
Degree of protection	IP20 (acc. to EN 60529)
Overvoltage protection	via 33 V suppressor diode at input
Feedback voltage	max. 35 VDC
Series connection of several devices	not permitted
Parallel operation of single channels	not permitted
Connection and type of mounting:	
Wire connection	Input (+): WAGO 831 Series
	Input (–), output, signaling:
	WAGO 721 Series
Cross sections	Input (+):
	0.5 mm² ... 10 mm² / AWG 20 ... 8
	Input (–), output, signaling:
	0.08 mm² ... 2.5 mm² / AWG 28 ... 12
Strip lengths	Input (+): 13 ... 15 mm / 0.55 in
	Input (–), output, signaling:
	8 ... 9 mm / 0.33 in
Type of mounting	DIN-rail mount (EN 60715)
Dimensions and weight:	
Dimensions (mm) W x H x L	45 x 90 x 115.5
	Length from upper-edge of DIN 35 rail
Weight	161 g
Standards and Specifications:	
Standards/specifications	UL 508, UL 2367, GL, EN 60950,
	EN 61000-6-2, EN 61000-6-3

Electronic Circuit Breaker
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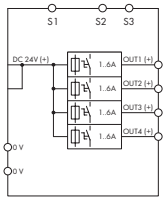

- Space-saving electronic circuit breaker with 4 channels
- 1–6 A nominal current, adjustable for each channel via sealable selector switch
- Switch-on capacity > 50,000 µF per channel
- One illuminated three-colored button per channel simplifies switching (on/off), resetting, and on-site diagnostics
- Time-delayed switching of channels
- Tripped message (group signal)
- Status message for each channel via pulse sequence
- Remote input resets tripped channels or switches on/off any number of channels via pulse sequence

Description	Item No.	Pack. Unit
Electronic circuit breaker, 24 VDC / 4 x 6 A	**787-1664/106-000**	1

Technical Data

Input:	
Nominal input voltage $V_{i\,nom}$	24 VDC
Input voltage range	18 ... 30 VDC
Output:	
Nominal output voltage $V_{o\,nom}$	4 x 24 VDC
Nominal current	max. 4 x 6 ADC
	(1, 2, 3, 4, 5, 6 A adjustable for each
	channel via selector switch)
Voltage drop	120 mV at 6 A
Trip time	Load-dependent (16 ms ... 100 s)
Switch-on capacity	> 50,000 µF per channel
Switch-on behavior	Time-delayed channel switching
	(load-dependent, min. 50 ms / max. 5 s)
Active current limitation	no
Operational indication	Green LED (O.K. channel),
	Red LED (tripped channel)
Signaling	4 x LED (green/red/orange)
Remote input	Reactivation of all tripped channels via
	15–30 VDC pulse for min. 500 ms.
	Switching on/off any number of channels
	via pulse sequence.
Efficiency/Power losses:	
Efficiency	99 % typ.
Power loss P_V	4.2 W (nominal load)
Fuse protection:	
Internal fuse	15 AT per channel

Technical Data

Environmental requirements:	
Ambient operating temperature	-25 °C ... +70 °C
Storage temperature	-25 °C ... +85 °C
Rel. humidity	30% ... 85% (no condensation permissible)
Derating	no derating
Safety and protection:	
Test voltage	500 VDC (connectors to housing)
Protection class	III
Reverse voltage protection	no
Degree of protection	IP20 (acc. to EN 60529)
Overvoltage protection	via 33 V suppressor diode at input
Feedback voltage	max. 35 VDC
Series connection of several devices	not permitted
Parallel operation of single channels	not permitted
Connection and type of mounting:	
Wire connection	Input (+): WAGO 831 Series
	Input (–), output, signaling:
	WAGO 721 Series
Cross sections	Input (+):
	0.5 mm² ... 10 mm² / AWG 20 ... 8
	Input (–), output, signaling:
	0.08 mm² ... 2.5 mm² / AWG 28 ... 12
Strip lengths	Input (+): 13 ... 15 mm / 0.55 in
	Input (–), output, signaling:
	8 ... 9 mm / 0.33 in
Type of mounting	DIN-rail mount (EN 60715)
Dimensions and weight:	
Dimensions (mm) W x H x L	45 x 90 x 115.5
	Length from upper-edge of DIN 35 rail
Weight	170 g
Standards and approvals:	
Standards/Specifications	UL 508, UL 2367, GL, EN 60950,
	EN 61000-6-2, EN 61000-6-3

Electronic Circuit Breaker with Active Current Limitation
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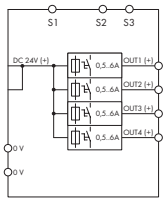

- Space-saving electronic circuit breaker with 4 channels
- 0.5–6 A nominal current, adjustable for each channel via sealable selector switch
- Active current limitation
- Switch-on capacity > 65000 µF per channel
- One illuminated three-colored button per channel simplifies switching (on/off), resetting, and on-site diagnostics
- Time-delayed switching of channels
- Tripped message (group signal)
- Status message for each channel via pulse sequence
- Remote input resets tripped channels or switches on/off any number of channels via pulse sequence

Description	Item No.	Pack. Unit
Electronic circuit breaker, 24 VDC / 4 x 6 A	**787-1664/006-1000**	1

Technical Data

Input:	
Nominal input voltage $V_{i\,nom}$	24 VDC
Input voltage range	18 ... 30 VDC
Output:	
Nominal output voltage $V_{o\,nom}$	4 x 24 VDC
Nominal current	max. 4 x 6 ADC
	(0.5, 1, 2, 3, 4, 6 A adjustable for each
	channel via selector switch)
Voltage drop	145 mV at 6 A
Trip time	Load-dependent (16 ms ... 5 s)
Switch-on capacity	> 65,000 µF per channel
Switch-on behavior	Time-delayed channel switching
	(load-dependent, min. 50 ms / max. 5 s)
Active current limitation	yes
Operational indication	Green LED (O.K. channel),
	Red LED (tripped channel)
Signaling	4 x LED (green/red/orange)
Remote input	Reactivation of all tripped channels via
	15–30 VDC pulse for min. 500 ms.
	Switching on/off any number of channels
	via pulse sequence.
Efficiency/Power losses:	
Efficiency	99 % typ.
Power loss P_V	4.3 W (nominal load)
Fuse protection:	
Internal fuse	15 AT per channel

Technical Data

Environmental requirements:	
Ambient operating temperature	-25 °C ... +70 °C
Storage temperature	-25 °C ... +85 °C
Rel. humidity	30% ... 85% (no condensation permissible)
Derating	no derating
Safety and protection:	
Test voltage	500 VDC (connectors to housing)
Protection class	III
Reverse voltage protection	no
Degree of protection	IP20 (acc. to EN 60529)
Overvoltage protection	via 33 V suppressor diode at input
Feedback voltage	max. 35 VDC
Series connection of several devices	not permitted
Parallel operation of single channels	not permitted
Connection and type of mounting:	
Wire connection	Input (+): WAGO 831 Series
	Input (–), output, signaling:
	WAGO 721 Series
Cross sections	Input (+):
	0.5 mm² ... 10 mm² / AWG 20 ... 8
	Input (–), output, signaling:
	0.08 mm² ... 2.5 mm² / AWG 28 ... 12
Strip lengths	Input (+): 13 ... 15 mm / 0.55 in
	Input (–), output, signaling:
	8 ... 9 mm / 0.33 in
Type of mounting	DIN-rail mount (EN 60715)
Dimensions and weight:	
Dimensions (mm) W x H x L	45 x 90 x 115.5
	Length from upper-edge of DIN 35 rail
Weight	170 g
Standards and approvals:	
Standards/Specifications	UL 508, UL 2367, GL, EN 60950,
	EN 61000-6-2, EN 61000-6-3

Electronic Circuit Breaker
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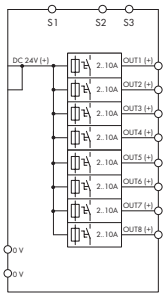

- Compact 8-channel electronic circuit breaker
- 2–10 A nominal current, adjustable for each channel via sealable selector switch
- Switch-on capacity > 50000 µF per channel
- One illuminated three-colored button per channel simplifies switching (on/off), resetting and on-site diagnosing
- Time-delayed switching of channels
- Tripped message (group signal)
- Status message for each channel via pulse sequence
- Remote input resets tripped channels or switching on/off any number of channels via pulse sequence

Description	Item No.	Pack. Unit
Electronic Circuit Breaker, 24 VDC / 8 x 10 A	**787-1668**	1

Technical Data

Input:	
Nominal input voltage Vi nom	24 V DC
Input voltage range	18 ... 30 V DC
Output:	
Nominal output voltage Vo nom	8x 24 V DC
Nominal current	max. 8 x 10 ADC
	(2, 3, 4, 6, 8, 10 A adjustable for each
	channel via selector switch)
Voltage drop	200 mV at 10 A
Trip time	Load-dependent (20 ms – 100 s)
Switch-on capacity	> 50000 µF per channel
Switch-on behavior	Time-delayed channel switching
	(50 – 100 ms each)
Active current limitation	no
Operational indication	Green LED (channel OK),
	Red LED (channel triggered)
Signaling	8 x LED (green/red/orange)
Remote input	Reactivation of all tripped channels via
	15 – 30 VDC pulse for min. 500 ms.
	Switching on/off any number of channels
	via pulse sequence.
Efficiency / power losses:	
Efficiency	99 % typ.
Power loss P_V	1.3 W (stand-by) / 20 W (nominal load)
Fuse protection:	
Internal fuse	15 AT per channel

Technical Data

Environmental requirements:	
Ambient operating temperature	-25 °C ... +70 °C
Storage temperature	-25 °C ... +85 °C
Rel. humidity	30 % ... 85 % (no condensation)
Derating	≥ +50 °C: see instruction manual
Safety and protection:	
Test voltage	500 V DC (terminals to enclosure)
Protection class	III
Reverse voltage protection	no
Degree of protection	IP20 (acc. to EN 60529)
Overload protection	via 33 V suppressor diode at input
Feedback voltage	max. 35 VDC
Series connection of several devices	not permitted
Parallel operation of single channels	not permitted
Connection and type of mounting:	
Wire connection	Input (+): WAGO 831 Series
	Input (–), Output, Signalising:
	WAGO 721 Series
Cross sections	Input (+):
	0.5 mm² ... 10 mm² / AWG 20 ... 8
	Input (–), Output, Signalising:
	0.08 mm² ... 2.5 mm² / AWG 28 ... 12
Strip lengths	Input (+): 13 ... 15 mm / 0.55 in
	Input (–), Output, Signalising:
	8 ... 9 mm / 0.33 in
Type of mounting	DIN-rail mount (EN 60715)
Dimensions and weight:	
Dimensions (mm) W x H x L	42 x 127 x 142.5
	Length from upper-edge of DIN 35 rail
Weight	800 g
Standards and approvals:	
Standards/Specifications	UL 508, UL 2367, GL, EN 60950,
	EN 61000-6-2, EN 61000-6-3

Electronic Circuit Breaker
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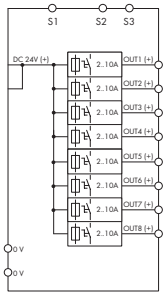

- Space-saving electronic circuit breaker with 8 channels
- 2–6 A nominal current, adjustable for each channel via sealable selector switch; factory preset: 2 A, switched off
- Switch-on capacity > 50000 µF per channel
- One illuminated three-colored button per channel simplifies switching (on/off), resetting, and on-site diagnosis
- Time-delayed switching of channels
- Tripped and switched off message (common group signal S3)
- Status message for each channel via pulse sequence
- Remote input resets tripped channels or switches on/off any number of channels via pulse sequence

Description	Item No.	Pack. Unit
Electronic Circuit Breaker, 24 VDC / 8 x 10 A	**787-1668/000-004**	1

System Data

Input:	
Nominal input voltage $V_{i\,nom}$	24 VDC
Input voltage range	18 ... 30 VDC
Output:	
Nominal output voltage $V_{o\,nom}$	8 x 24 VDC
Nominal current	max. 8 x 10 ADC
	(2, 3, 4, 6, 8, 10 A adjustable for each
	channel via selector switch)
Factory preset	2 ADC, switched off
Voltage drop	200 mV at 10 A
Trip time	Load-dependent (20 ms – 100 s)
Switch-on capacity	> 50000 µF per channel
Switch-on behavior	Time-delayed channel switching
	(50 – 100 ms each)
Active current limitation	no
Operational indication	Green LED (channel OK),
	Red LED (channel triggered)
Signaling	8 x LED (green/red/orange)
Remote input	Reactivation of all tripped channels via
	15–30 VDC pulse for min. 500 ms.
	Switching on/off any number of channels
	via pulse sequence.
Efficiency/Power Losses:	
Efficiency	99 % typ.
Power loss P_V	1.3 W (stand-by) / 20 W (nominal load)
Fuse Protection:	
Internal fuse	15 AT per channel

Technical Data

Environmental Requirements:	
Ambient operating temperature	-25 °C ... +70 °C
Storage temperature	-25 °C ... +85 °C
Relative humidity	30% ... 85% (no condensation permissible)
Derating	≥ +50 °C: see instruction manual
Safety and protection:	
Test voltage	500 VDC (connectors to housing)
Protection class	III
Reverse voltage protection	no
Degree of protection	IP20 (acc. to EN 60529)
Overvoltage protection	via 33 V suppressor diode at input
Feedback voltage	max. 35 VDC
Series connection of several devices	not permitted
Parallel operation of single channels	not permitted
Connection and type of mounting:	
Wire connection	Input (+): WAGO 831 Series
	Input (–), output, signaling:
	WAGO 721 Series
Cross sections	Input (+):
	0.5 mm² ... 10 mm² / AWG 20 ... 8
	Input (–), output, signaling:
	0.08 mm² ... 2.5 mm² / AWG 28 ... 12
Strip lengths	Input (+): 13 ... 15 mm / 0.55 in
	Input (–), output, signaling:
	8 ... 9 mm / 0.33 in
Type of mounting	DIN-rail mount (EN 60715)
Dimensions and weight:	
Dimensions (mm) W x H x L	42 x 127 x 142.5
	Length from upper-edge of DIN 35 rail
Weight	420 g
Standards and Specifications:	
Standards/specifications	UL 508, UL 2367, GL, EN 60950,
	EN 61000-6-2, EN 61000-6-3

Electronic Circuit Breaker
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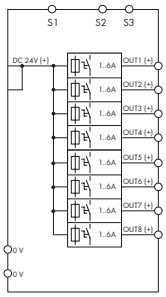

- Space-saving electronic circuit breaker with 8 channels
- 1–6 A nominal current, adjustable for each channel via sealable selector switch
- Switch-on capacity > 50,000 µF per channel
- One illuminated three-colored button per channel simplifies switching (on/off), resetting, and on-site diagnostics
- Time-delayed switching of channels
- Tripped message (group signal)
- Status message for each channel via pulse sequence
- Remote input resets tripped channels or switches on/off any number of channels via pulse sequence

Description	Item No.	Pack. Unit
Electronic circuit breaker, 24 VDC / 8 x 6 A	**787-1668/106-000**	1

Technical Data

Input:	
Nominal input voltage $V_{i\,nom}$	24 VDC
Input voltage range	18 ... 30 VDC
Output:	
Nominal output voltage $V_{o\,nom}$	8 x 24 VDC
Nominal current	max. 8 x 6 ADC
	(1, 2, 3, 4, 5, 6 A adjustable for each
	channel via selector switch)
Voltage drop	120 mV at 6 A
Trip time	Load-dependent (16 ms ... 100 s)
Switch-on capacity	> 50,000 µF per channel
Switch-on behavior	Time-delayed channel switching
	(load-dependent, min. 50 ms / max. 5 s)
Active current limitation	no
Operational indication	Green LED (O.K. channel),
	Red LED (tripped channel)
Signaling	8 x LED (green/red/orange)
Remote input	Reactivation of all tripped channels via
	15–30 VDC pulse for min. 500 ms.
	Switching on/off any number of channels
	via pulse sequence.
Efficiency/Power losses:	
Efficiency	99 % typ.
Power loss P_V	8 W (nominal load)
Fuse protection:	
Internal fuse	15 AT per channel

Technical Data

Environmental requirements:	
Ambient operating temperature	-25 °C ... +70 °C
Storage temperature	-25 °C ... +85 °C
Rel. humidity	30% ... 85% (no condensation permissible)
Derating	no derating
Safety and protection:	
Test voltage	500 VDC (connectors to housing)
Protection class	III
Reverse voltage protection	no
Degree of protection	IP20 (acc. to EN 60529)
Overvoltage protection	via 33 V suppressor diode at input
Feedback voltage	max. 35 VDC
Series connection of several devices	not permitted
Parallel operation of single channels	not permitted
Connection and type of mounting:	
Wire connection	Input (+): WAGO 831 Series
	Input (–), output, signaling:
	WAGO 721 Series
Cross sections	Input (+):
	0.5 mm² ... 10 mm² / AWG 20 ... 8
	Input (–), output, signaling:
	0.08 mm² ... 2.5 mm² / AWG 28 ... 12
Strip lengths	Input (+): 13 ... 15 mm / 0.55 in
	Input (–), output, signaling:
	8 ... 9 mm / 0.33 in
Type of mounting	DIN-rail mount (EN 60715)
Dimensions and weight:	
Dimensions (mm) W x H x L	42 x 127 x 142.5
	Length from upper-edge of DIN 35 rail
Weight	440 g
Standards and approvals:	
Standards/Specifications	UL 508, UL 2367, GL, EN 60950,
	EN 61000-6-2, EN 61000-6-3

Electronic Circuit Breaker with Active Current Limitation
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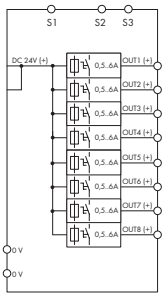


- Space-saving electronic circuit breaker with 8 channels
- 0.5–6 A nominal current, adjustable for each channel via sealable selector switch
- Active current limitation
- Switch-on capacity > 65000 µF per channel
- One illuminated three-colored button per channel simplifies switching (on/off), resetting, and on-site diagnostics
- Time-delayed switching of channels
- Tripped message (group signal)
- Status message for each channel via pulse sequence
- Remote input resets tripped channels or switches on/off any number of channels via pulse sequence

Description	Item No.	Pack. Unit
Electronic circuit breaker, 24 VDC / 8 x 6 A	**787-1668/006-1000**	1

Technical Data

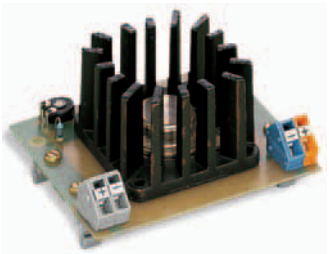
Input:	
Nominal input voltage $V_{i\,nom}$	24 VDC
Input voltage range	18 ... 30 VDC
Output:	
Nominal output voltage $V_{o\,nom}$	8 x 24 VDC
Nominal current	max. 8 x 6 ADC
	(0.5, 1, 2, 3, 4, 6 A adjustable for each
	channel via selector switch)
Voltage drop	155 mV at 6 A
Trip time	Load-dependent (16 ms ... 5 s)
Switch-on capacity	> 65,000 µF per channel
Switch-on behavior	Time-delayed channel switching
	(load-dependent, min. 50 ms / max. 5 s)
Active current limitation	yes
Operational indication	Green LED (O.K. channel),
	Red LED (tripped channel)
Signaling	8 x LED (green/red/orange)
Remote input	Reactivation of all tripped channels via
	15–30 VDC pulse for min. 500 ms.
	Switching on/off any number of channels
	via pulse sequence.
Efficiency/Power losses:	
Efficiency	99 % typ.
Power loss P_V	8.6 W (nominal load)
Fuse protection:	
Internal fuse	15 AT per channel

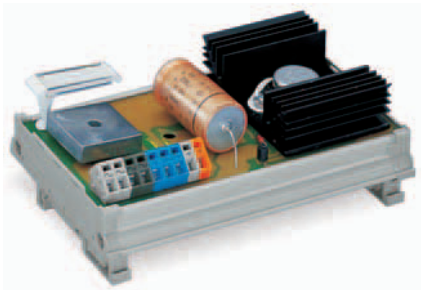
Technical Data

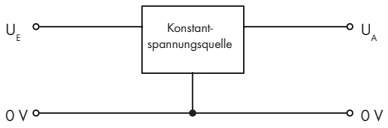
Environmental requirements:	
Ambient operating temperature	-25 °C ... +70 °C
Storage temperature	-25 °C ... +85 °C
Rel. humidity	30% ... 85% (no condensation permissible)
Derating	no derating
Safety and protection:	
Test voltage	500 VDC (connectors to housing)
Protection class	III
Reverse voltage protection	no
Degree of protection	IP20 (acc. to EN 60529)
Overvoltage protection	via 33 V suppressor diode at input
Feedback voltage	max. 35 VDC
Series connection of several devices	not permitted
Parallel operation of single channels	not permitted
Connection and type of mounting:	
Wire connection	Input (+): WAGO 831 Series
	Input (–), output, signaling:
	WAGO 721 Series
Cross sections	Input (+):
	0.5 mm² ... 10 mm² / AWG 20 ... 8
	Input (–), output, signaling:
	0.08 mm² ... 2.5 mm² / AWG 28 ... 12
Strip lengths	Input (+): 13 ... 15 mm / 0.55 in
	Input (–), output, signaling:
	8 ... 9 mm / 0.33 in
Type of mounting	DIN-rail mount (EN 60715)
Dimensions and weight:	
Dimensions (mm) W x H x L	42 x 127 x 142.5
	Length from upper-edge of DIN 35 rail
Weight	440 g
Standards and approvals:	
Standards/Specifications	UL 508*, UL 2367*, GL, EN 60950,
	EN 61000-6-2, EN 61000-6-3
	(* pending)

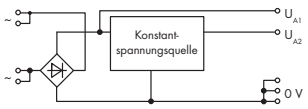
Rail-Mounted Modules - Constant Voltage Sources

	24 VDC; 3 A Input 27 ... 35 VDC Mounting feet for DIN 35 rail	24 VDC; 3 A Input 24 VAC +10 %, 50 ... 60 Hz Mounting carrier for DIN 35 rail



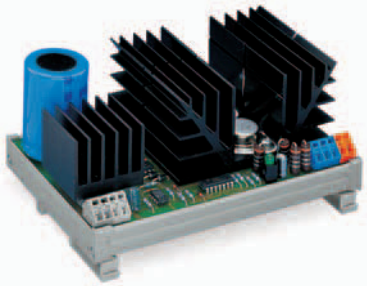


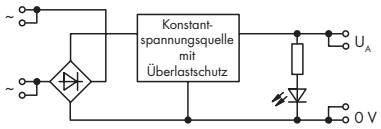




Description	Item No.	Pack. Unit	Item No.	Pack. Unit
Constant voltage source 24 VDC	**289-907**	1	**288-800**	1
Technical Data				
Input voltage	27 ... 35 VDC		24 VAC +10%	
Output voltage	24 VDC (± 10 %)		24 VDC (± 10 %)	
Nominal output current	3 A		3 A	
Ambient operating temperature	-25 °C ... +40 °C		-25 °C ... +40 °C	
Weight	88 g		209 g	
Dimensions (mm) W x H x L	78.5 x 39 x 66		140 x 44 x 85	
	Height from upper-edge of DIN 35 rail		Height from upper-edge of DIN 35 rail	
Wire connection	CAGE CLAMP® (236 Series)		CAGE CLAMP® (236 Series)	
Cross sections	0.08 ... 2.5 mm² / AWG 28 ... 12 (THHN, THWN)		0.08 ... 2.5 mm² / AWG 28 ... 12 (THHN, THWN)	
Stripped lengths	5 ... 6 mm / 0.22 in		5 ... 6 mm / 0.22 in	
Accessories				
WMB Multi marking system for mounting carrier			see from page 506	
Marker strips for mounting carrier			white 709-198 / translucent 709-196	

	24 VDC; 5 A **Input 24 VAC +10 %** **Electronic overload protection** **Output voltage indication by LED** **Mounting carrier for DIN 35 rail**	





Description	Item No.	Pack. Unit	
Constant voltage source 24 VDC	**288-801**	1	

Technical Data

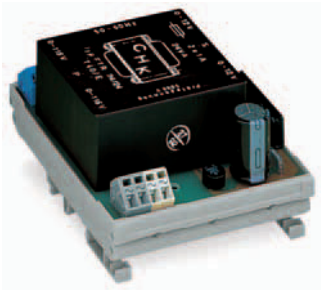
Input voltage	24 VAC +10%	
Output voltage	24 VDC (± 10 %)	
Nominal output current	5 A	
Overload protection	electronic	
Voltage returns after removal of overload	after 4 s	
Ambient operating temperature	0 °C ... +30 °C	
Weight	600.5 g	
Dimensions (mm) W x H x L	170 x 85 x 108	
	Height from upper-edge of DIN 35 rail	
Wire connection	CAGE CLAMP® (236 Series)	
Cross sections	0.08 ... 2.5 mm² / AWG 28 ... 12 (THHN, THWN)	
Stripped lengths	5 ... 6 mm / 0.22 in	

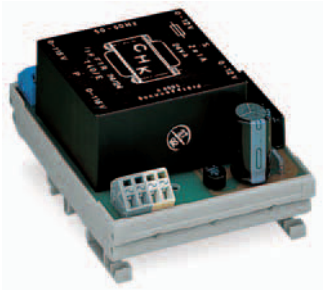
Accessories

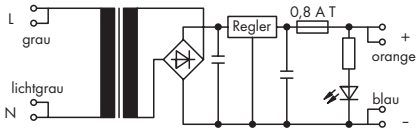
WMB Multi marking system for mounting carrier	see from page 506	
Marker strips for mounting carrier	white 709-198 / translucent 709-196	

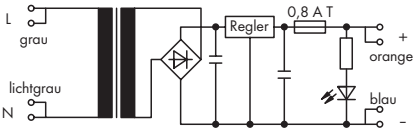
Rail-Mounted Modules - Power Supplies

	115 VAC / 24 VDC; 0.5 A Output voltage indication by LED Mounting carrier for DIN 35 rail	230 VAC / 24 VDC; 0.5 A Output voltage indication by LED Mounting carrier for DIN 35 rail



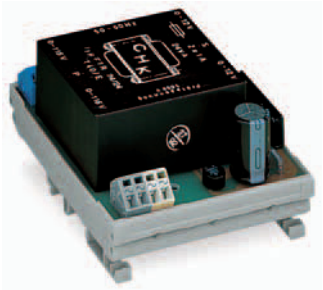


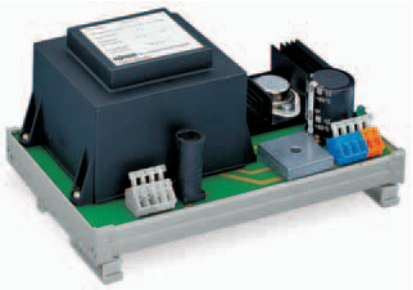


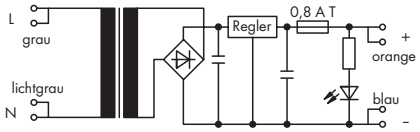


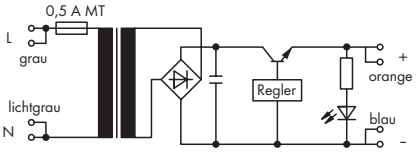
Description	Item No.	Pack. Unit	Item No.	Pack. Unit
Power supply, with universal mounting carrier	**288-809**	1	**288-810**	1
Technical Data				
Nominal input voltage Vi nom	115 VAC		230 VAC	
Input voltage range	± 10 %		± 10 %	
Frequency	50 Hz ... 60 Hz		50 Hz ... 60 Hz	
Power consumption at nominal load	30 VA		30 VA	
Nominal output voltage Vo nom	24 VDC		24 VDC	
Output voltage range	± 4 %		± 4 %	
Output current Io	0.5 A		0.5 A	
Residual ripple	≤ 10 mVss		≤ 10 mVss	
Output fuse	0.8 A slow		0.8 A slow	
Ambient operating temperature	0 °C ... +50 °C		0 °C ... +50 °C	
Weight	579 g		552 g	
Dimensions (mm) W x H x L	77 x 52 x 106		77 x 52 x 106	
	Height from upper-edge of DIN 35 rail		Height from upper-edge of DIN 35 rail	
Wire connection	CAGE CLAMP® (236 Series)		CAGE CLAMP® (236 Series)	
Cross sections	0.08 ... 2.5 mm² / AWG 28 ... 12 (THHN, THWN)		0.08 ... 2.5 mm² / AWG 28 ... 12 (THHN, THWN)	
Stripped lengths	5 ... 6 mm / 0.22 in		5 ... 6 mm / 0.22 in	
Approvals	Transformer acc. to VDE 0551		Transformer acc. to VDE 0551	
Accessories				
WMB Multi marking system for mounting carrier	see from page 506		see from page 506	
Marker strips for mounting carrier	white 709-198 / translucent 709-196		white 709-198 / translucent 709-196	

	230 VAC / 12 VDC; 0.5 A Output voltage indication by LED Mounting carrier for DIN 35 rail	115 VAC / 24 VDC; 2 A Output voltage indication by LED Mounting carrier for DIN 35 rail









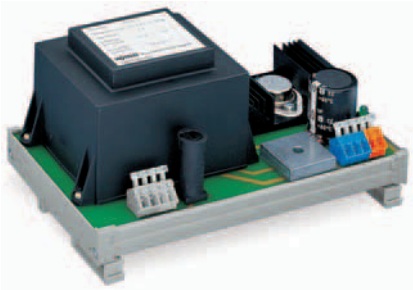
Description	Item No.	Pack. Unit	Item No.	Pack. Unit
Power supply, with universal mounting carrier	**288-808**	1	**288-813**	1

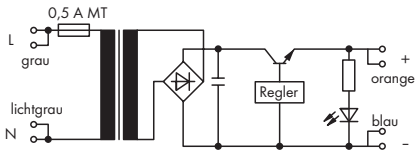
Technical Data

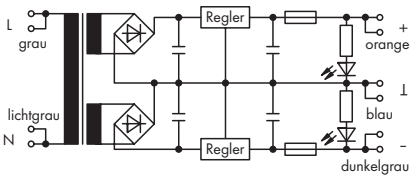
Nominal input voltage Vi nom	230 VAC	115 VAC
Input voltage range	± 10 %	± 10 %
Frequency	50 Hz ... 60 Hz	50 Hz ... 60 Hz
Power consumption at nominal load	23 VA	80 VA
Nominal output voltage Vo nom	12 VDC	24 VDC
Output voltage range	± 4 %	± 10 %
Output current Io	0.5 A	2 A
Residual ripple	≤ 10 mVss	≤ 80 mVss
Input fuse		0.8 A medium-slow
Output fuse	0.8 A slow	electronic, short-circuit protected
Short-circuit current		2.5 A
Ambient operating temperature	0 °C ... +50 °C	0 °C ... +40 °C
Weight	574 g	1969 g
Dimensions (mm) W x H x L	77 x 52 x 106	182 x 98 x 106
	Height from upper-edge of DIN 35 rail	Height from upper-edge of DIN 35 rail
Wire connection	CAGE CLAMP® (236 Series)	CAGE CLAMP® (256 Series)
Cross sections	0.08 ... 2.5 mm² / AWG 28 ... 12 (THHN, THWN)	0.08 ... 2.5 mm² / AWG 28 ... 12 (THHN, THWN)
Stripped lengths	5 ... 6 mm / 0.22 in	5 ... 6 mm / 0.22 in
Approvals	Transformer acc. to VDE 0551	Transformer acc. to VDE 0551
Accessories		
WMB Multi marking system for mounting carrier	see from page 506	see from page 506
Marker strips for mounting carrier	white 709-198 / translucent 709-196	white 709-198 / translucent 709-196

Rail-Mounted Modules - Power Supplies

	230 VAC / 24 VDC; 2 A Output voltage indication by LED Mounting carrier for DIN 35 rail	230 VAC / ± 12 VDC; 0.5 A 230 VAC / ± 15 VDC; 0.5 A Output voltage indication by LED Mounting carrier for DIN 35 rail

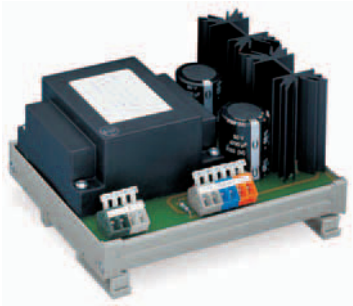


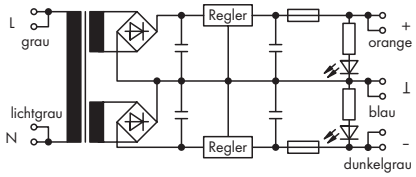




Description	Item No.	Pack. Unit	Item No.	Pack. Unit
Power supply, with universal mounting carrier	**288-812**	1	**288-814**	1
			288-815	1
Technical Data				
Nominal input voltage Vi nom	230 VAC		230 VAC	
Input voltage range	± 10 %		± 10 %	
Frequency	50 Hz ... 60 Hz		50 Hz ... 60 Hz	
Power consumption at nominal load	80 VA		27 VA	
Nominal output voltage Vo nom	24 VDC		± 12 VDC (288-814)	
			± 15 VDC (288-815)	
Output voltage range	± 10 %		± 4 %	
Output current Io	2 A		2 x 0.5 A	
Residual ripple	≤ 80 mVss		≤ 10 mVss	
Input fuse	0.5 A medium-slow			
Output fuse	electronic, short-circuit protected		2 x 0.8 A slow	
Short-circuit current	2.5 A			
Ambient operating temperature	0 °C ... +40 °C		0 °C ... +40 °C	
Weight	1900 g		675 g (288-814)	
			665 g (288-815)	
Dimensions (mm) W x H x L	182 x 98 x 106		94 x 57 x 106	
	Height from upper-edge of DIN 35 rail		Height from upper-edge of DIN 35 rail	
Wire connection	CAGE CLAMP® (256 Series)		CAGE CLAMP® (256 Series)	
Cross sections	0.08 ... 2.5 mm² / AWG 28 ... 12 (THHN, THWN)		0.08 ... 2.5 mm² / AWG 28 ... 12 (THHN, THWN)	
Stripped lengths	5 ... 6 mm / 0.22 in		5 ... 6 mm / 0.22 in	
Approvals	Transformer acc. to VDE 0551		Transformer acc. to VDE 0551	
Accessories				
WMB Multi marking system for mounting carrier	see from page 506		see from page 506	
Marker strips for mounting carrier	white 709-198 / translucent 709-196		white 709-198 / translucent 709-196	

	230 VAC / ± 15 VDC; **2 x 1 A short-circuit proof** **Output voltage indication by LED** **Mounting carrier for DIN 35 rail**	





Description	Item No.	Pack. Unit	
Power supply, with universal mounting carrier	**288-816**	1	

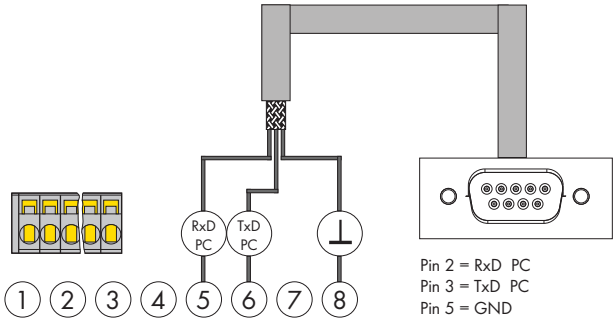
Technical Data

Nominal input voltage Vi nom	230 VAC	
Input voltage range	± 10 %	
Frequency	50 Hz ... 60 Hz	
Power consumption at nominal load	53 VA	
Nominal output voltage Vo nom	± 15 VDC	
Output voltage range	± 4 %	
Output current Io	2 x 1 A	
Residual ripple	≤ 10 mVss	
Short-circuit current	approx. 1.5 A	
Ambient operating temperature	0 °C ... +40 °C	
Weight	1011 g	
Dimensions (mm) W x H x L	138 x 87 x 106	
	Height from upper-edge of DIN 35 rail	
Wire connection	CAGE CLAMP® (256 Series)	
Cross sections	0.08 ... 2.5 mm² / AWG 28 ... 12 (THHN, THWN)	
Stripped lengths	5 ... 6 mm / 0.22 in	
Approvals	Transformer acc. to VDE 0551	

Accessories		
WMB Multi marking system for mounting carrier	see from page 506	
Marker strips for mounting carrier	white 709-198 / translucent 709-196	

EPSITRON - RS-232 Communication Cable

Similiar to picture



The 787-890 Communication Cable is used for configuration and visualization via PC or controller.
It is suitable for all 787-8xx Series devices equipped with an RS-232 serial interface.
PC software for 787 Series devices can be downloaded at: www.wago.com/epsitron
Function blocks for communication with WAGO-I/O-SYSTEM 750 are also available.

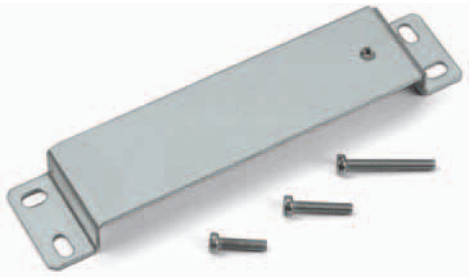
NOTE:
The 787-890 Communication Cable is not electrically isolated.

Description	Item No.	Pack. Unit
RS-232 communication cable	**787-890**	1

Technical Data	
Type of signal	RS-232
Ports	1 x 8-pole 733-108 Female Connector with strain relief (787-8xx Module side), 1x 9-pole SUB-D female connector (PC/controller side)
Isolation	No
Cross sections	3 x 0.34 mm² (AWG 22), shielded
Ambient operating temperature	-10°C ... +70°C
Degree of protection	IP20
Length	1.8 m

EPSITRON® Wall Mounting Adapter

	Wall mounting adapter, for screw fixing of 787-8xx devices on mounting plate or wall without DIN 35 rail.	



Wall mounting adapter, for screw fixing of 787-8xx devices on mounting plate or wall without DIN 35 rail.
The wall mounting adapter replaces the rail support of the 787-8xx device.
The adapter is screwed to the 787-8xx device using one of the provided screws.

Description	Item No.	Pack. Unit	
Wall Mount Adapter	**787-895**	*5*	

Technical Data

Material	Galvanized sheet steel	
Dimensions (mm) W x H x L	35 x 15 x 158.5	
Fixing	Fixing holes: 4 slots, 5.3 mm x 9 mm	
	Fixing hole spacing: 143 mm x 19.5 mm	
Included	Wall mounting adapter	
	1x screw M4 x 16	
	1x screw M4 x 20	
	1x screw M4 x 30	

EPSITRON® Carrier Rail Adapter

**Carrier rail adapter
for mounting 787-8xx devices
to a DIN 35 rail**

Carrier rail adapter for mounting 787-8xx devices to a DIN 35 rail.
The 787-896 Carrier Rail Adapter allows both vertical and horizontal mounting of 787-8xx devices.
Mounting the adapter to the device is performed by sliding both single parts into the guide slots of the cooling element and then screwing, allowing the position to be changed easily.

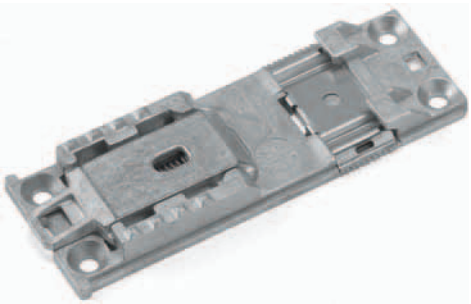
Description	Item No.	Pack. Unit
Carrier Rail Adapter	**787-896**	1

Technical Data

Material	Galvanized sheet metal
Dimensions (mm) W x H x L	35 x 136.5 x 15.5
Fixing	by sliding both single parts into the guide slot and then screwing
Included	Carrier rail adapter Assembly instructions

EPSITRON® Carrier Rail Adapter

	Carrier rail adapter made of zinc die-cast for mounting 787-8xx devices to a DIN 35 rail	



Carrier rail adapter made of zinc die-cast for mounting 787-8xx devices to a DIN 35 rail.
The 787-897 Carrier Rail Adapter allows horizontal mounting of 787-8xx devices.
Mounting the adapter to the device is performed by sliding both single parts into the guide slots of the cooling element and then screwing, allowing the position to be changed easily.

Description	Item No.	Pack. Unit	
Carrier Rail Adapter	**787-897**	1	

Technical Data

Material	Zinc die-cast
Dimensions (mm) W x H x L	37 x 102.5 x 10.5
Fixing	by pressing the adapter into the guide slot
Included	Carrier rail adapter Assembly instructions