












EPSTRON® Power Supply System

EPSITRON® Power Supply System

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EPSITRON® Power Supplies Selection Guide

Switched-Mode Power Supplies, 24 VDC Output

Nominal output current [ADC]	Input, 1-phase	Input, 2-/3-phase	Approvals						DC OK signal/contact	RS-232 serial interface	TopBoost*	PowerBoost	Efficiency, typ. [%]	Ambient operating temperature [°C]***	Item Number	Page
			EN 60335	cURus 60950	cULus 508	GL	ANSI/ISA 12.12.1	ATEX/IEC Ex								
1.0	■		■	■	■	■						86.0	-25 ... +70	787-1602**	331	
1.25	■		■	■	■	■						80.0	-20 ... +60	787-1702	351	
1.3	■		■	■	■	■						82.0	-25 ... +60	787-1002	369	
1.3	■		■	■	■	□						82.0	-25 ... +60	787-1102	359	
1.3	■		■	■	■	■						87.0	-25 ... +70	787-1202	363	
2.0	■		■	■	■	■						89.0	-25 ... +70	787-1606**	331	
2.5	■		■	■	■	■						86.0	-10 ... +70	787-712	347	
2.5	■		■	■	■	■						81.0	-20 ... +60	787-1712	351	
2.5	■		■	■	■	■						88.0	-25 ... +60	787-1012	370	
2.5	■		■	■	■	□						88.0	-25 ... +60	787-1112	359	
2.5	■		■	■	■	■						89.0	-25 ... +70	787-1212	363	
3.0	■		■	■	■	■				■	■	87.8	-25 ... +70	787-818	316	
3.8	■		■	■	■	■						87.0	-25 ... +70	787-1616/0000-1000**	332	
4.0	■		■	■	■	■						89.0	-25 ... +70	787-1616	332	
4.0	■		■	■	■	■						88.0	-25 ... +60	787-1022	370	
4.0	■		■	■	■	□						88.0	-25 ... +60	787-1122	360	
4.2	■		■	■	■	□						90.0	-25 ... +70	787-1216	364	
5.0	■		■	■	■	■				■	■	87.8	-25 ... +70	787-822	317	
5.0	■		■	■	■	■						89.0	-25 ... +70	787-1622	333	
5.0	■	■	■	■	■	■				■	■	89.0	-25 ... +70	787-1628	341	
5.0	■		■	■	■	■			■			89.0	-25 ... +70	787-1675***	372	
5.0	■		■	■	■	■						86.0	-10 ... +60	787-722	347	
5.0	■		■	■	■	■						84.0	-20 ... +60	787-1722	352	
6.0	■		■	■	■	□						90.0	-25 ... +70	787-1226	364	
6.25	■	■	■	■	■	□						87.0	-25 ... +70	787-738	355	
10.0	■		■	■	■	■				■	■	90.0	-25 ... +70	787-832	317	
10.0	■		■	■	■	■						91.0	-25 ... +70	787-1632	333	
10.0	■		■	■	■	■						86.0	-10 ... +70	787-732	348	
10.0	■		■	■	■	■						84.0	-20 ... +60	787-1732	352	
10.0	■	■	■	■	■	■			■	■	■	91.7	-25 ... +70	787-850	322	
10.0	■	■	■	■	■	■					■	91.7	-25 ... +70	787-840	321	
10.0	■		■	■	■	□						90.0	-25 ... +70	787-1640	343	
10.0	■		■	■	■	□						89.0	-25 ... +70	787-740	355	
20.0	■		■	■	■	■				■	■	91.0	-25 ... +70	787-834	318	
20.0	■		■	■	■	■						92.0	-25 ... +70	787-1634	334	
20.0	■		■	■	■	■						90.0	-25 ... +70	787-734	348	
20.0	■	■	■	■	■	■			■	■	■	92.9	-25 ... +70	787-852	323	
20.0	■	■	■	■	■	■					■	92.9	-25 ... +70	787-842	321	
20.0	■		■	■	■	□						92.0	-25 ... +70	787-1642	343	
20.0	■		■	■	■	□						90.0	-25 ... +70	787-742	356	
40.0	■		■	■	■	■						90.0	-25 ... +70	787-736	349	
40.0	■	■	■	■	■	■			■	■	■	93.6	-25 ... +55	787-854	323	
40.0	■	■	■	■	■	■					■	93.6	-25 ... +55	787-844	322	
40.0	■		■	■	■	□						92.0	-25 ... +70	787-1644	344	

5

Switched-Mode Power Supplies. 5, 12, 18, 48 VDC Output

Nominal output current [ADC]	Input, 1-phase	Input, 2-/3-phase	Approvals						DC OK signal/contact	RS-232 serial interface	TopBoost*	PowerBoost	Efficiency, typ. [%]	Ambient operating temperature [°C] ****	Item Number	Page
			EN 60335	cURus 60950	cULus 508	GL	ANSI/ISA 12.12.1	ATEX/IEC Ex								
5.5	■		■	■	□							75.0	-25 ... +60	787-1020	367	
Output: 12 VDC																
2.0	■		■	■	■	■		■				82.0	-25 ... +70	787-1601**	327	
2.0	■		■	■	■	■		■				80.0	-25 ... +60	787-1001	367	
4.0	■		■	■	■	■		■				86.0	-25 ... +70	787-1611**	327	
4.0	■		■	■	■	■		■				85.0	-25 ... +60	787-1011	368	
6.0	■		■	■	■	■		■	■	■		83.0	-25 ... +70	787-819	315	
6.5	■		■	■	■	■		■				87.0	-25 ... +60	787-1021	368	
7.0	■		■	■	■	■		■				86.0	-25 ... +70	787-1621	328	
10.0	■		■	■	■	■		■	■	■		87.8	-25 ... +70	787-821	315	
15.0	■		■	■	■	■		■	■	■		87.0	-25 ... +70	787-831	316	
15.0	■		■	■	■	■		■	■	■		90.0	-25 ... +70	787-1631	328	
Output: 18 VDC																
2.5	■		■	■	□							83.0	-25 ... +60	787-1017	369	
Output: 48 VDC																
2.0	■		■	■	■	■		■				86.0	-25 ... +70	787-1623	337	
5.0	■		■	■	■	■		■	■	■		91.0	-25 ... +70	787-833	318	
5.0	■		■	■	■	■		■	■	■		92.0	-25 ... +70	787-1633	337	
10.0	■		■	■	■	■		■	■	■		91.0	-25 ... +70	787-835	319	
10.0	■		■	■	■	■		■	■	■		93.0	-25 ... +70	787-1635	338	
10.0	■	■	■	■	■	■		■	■	■		93.0	-25 ... +70	787-845	325	
20.0	■	■	■	■	■	■		■	■	■		94.4	-25 ... +70	787-847	325	

DC/DC Converters

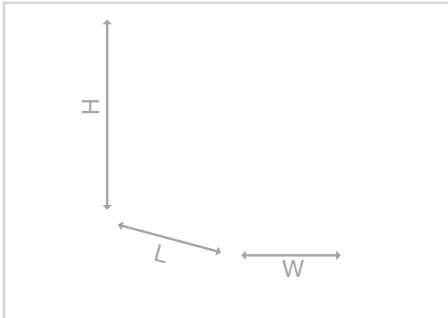
Nominal input voltage [VDC]	Nominal voltage output [VDC]	Nominal output current [A]	Approvals						DC OK signal/contact	Efficiency, typ. [%]	Ambient operating temperature [°C]	Item Number	Page
			cURus 60950	cULus 508	GL	ANSI/ISA 12.12.1	ATEX/IEC Ex	EN 50155					
24.0	5.0	0.5	□	□	□	□	□	■	82.5	-25 ... +70	787-2801	421	
24.0	10.0	0.5	□	□	□	□	□	■	89.0	-25 ... +70	787-2802	421	
48.0	24.0	0.5	□	□	□	□	□	■	91.0	-25 ... +70	787-2803	422	
24.0	12.0	0.5	□	□	□	□	□	■	90.0	-25 ... +70	787-2805	422	
24.0	5/10/12	0.5	□	□	□	□	□	■	82.5	-25 ... +70	787-2810	423	
110.0	24.0	2.0						■	85.0	-40 ... +70	787-1014	419	
72.0	24.0	2.0						■	86.0	-40 ... +70	787-1014/0072-0000	419	

■ yes □ pending
 * TopBoost enables magnetic tripping of circuit breakers in the output circuit.
 ** Class 2 Power Unit acc. to cURus 1310 or cURus 60950
 *** with uninterruptible power supply (UPS)
 **** Device starts at -40 °C type-tested for 787-8xx, -10xx, -16xx

Switched-Mode Power Supply, 1-Phase

EPSITRON® PRO Power

787 Series



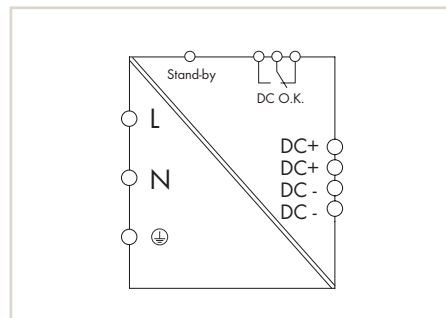
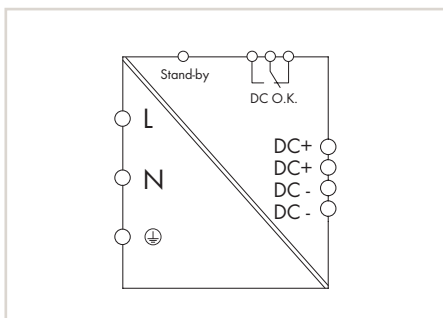
5

Features:

- Switched-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
- Suitable for both parallel and series operation
- Natural convection cooling when horizontally mounted
- Enclosed for use in control cabinets
- Electrically isolated output voltage (SELV) acc. to EN 60950-1/UL 60950-1; PELV acc. to EN 60204

Technical Data

Input	
Input voltage range	85 ... 264 VAC, 120 ... 373 VDC
Frequency	50 ... 60 Hz
Discharge current	1 mA (typ.)
Output	
Adjustment accuracy	1 %
Residual ripple	< 70 mV (peak-to-peak)
Current limitation	1.1 x I _o typ.
Operational indication	LED green (DC OK), LED red (error)
Signaling	Relay contact DC OK (changeover contact)
General Specifications	
Standards/Approvals	EN 60950, EN 61204-3, UL 60950, UL 508
Environmental Requirements	
Ambient operating temperature	-25 ... +70 °C Device start at -40 °C type-tested
Storage temperature	-25 ... +85 °C
Relative humidity	5 % ... 96 % (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./Pri.-GND/Sec.-GND	4.2 kV DC / 2.2 kV DC / 0.7 kV DC
Protection class	I
Degree of protection	IP20 per EN 60529
Overvoltage category	II
Overvoltage protection	Via varistor at primary circuit
Short-circuit-protection	Yes
No-load proof	Yes
Parallel operation	Yes
Series connection	Yes
MTBF	> 500,000 h (acc. to IEC 61709)
Connection and Type of Mounting	
Type of mounting	DIN-rail-mounting (EN 60715) in 2 positions



EPSITRON® Switched-Mode Power Supply, PRO Power, 1-phase, output: 12 VDC / 6 A, TopBoost + PowerBoost, DC OK contact

Item No.	Pack. Unit
787-819	1

EPSITRON® Switched-Mode Power Supply, PRO Power, 1-phase, output: 12 VDC / 10 A, TopBoost + PowerBoost, DC OK contact

Item No.	Pack. Unit
787-821	1

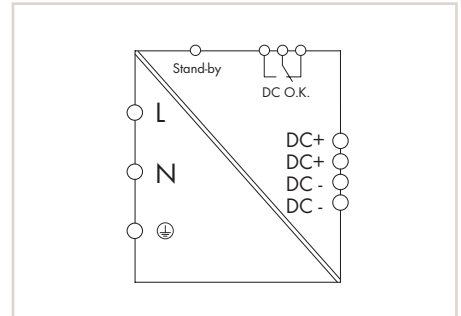
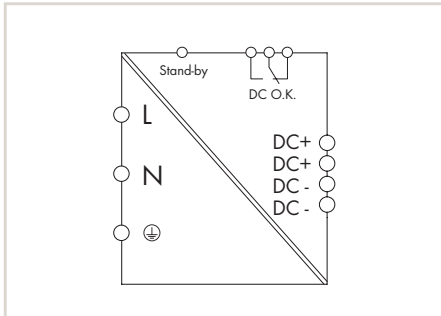
Electrical Data

Nominal input voltage $U_{I,nom}$	100 ... 240 VAC	100 ... 240 VAC
Input voltage derating	-5 % / VAC < 95 VAC	-5 % / VAC < 95 VAC
Input current I_i	0.51 A at 240 VAC and 6 ADC	0.97 A at 240 VAC and 10 ADC
Inrush current	< 30 A (peak)	< 30 A (peak)
Mains failure hold-up time	70 ms typ. at 230 VAC	35 ms typ. at 230 VAC
Nominal output voltage $U_{O,nom}$	12 VDC (SELV)	12 VDC (SELV)
Output voltage range	11 ... 18 VDC adjustable	11 ... 18 VDC adjustable
Factory preset	12 VDC	12 VDC
Output current I_o	6 A at 12 VDC	10 A at 12 VDC
Overload behavior	TopBoost / PowerBoost / Constant current	TopBoost / PowerBoost / Constant current
PowerBoost	12 ADC (for 4 s), 9 ADC (for 8 s)	20 ADC (for 4 s), 15 ADC (for 8 s)
TopBoost	21 ADC (for 25 ms)	60 ADC (for 25 s), 40 ADC $U_{IN} < 110$ VAC (for 25 ms)
Efficiency	83 % typ.	87.8 % typ.
Power loss P_v	0.5 W (stand-by) / 3.0 W (no load) / 9.4 W (nominal load)	0.5 W (stand-by) / 5.0 W (no load) / 14.6 W (nominal load)
Internal fuse	T 2 A / 250 V	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	Circuit breakers 6 A, 10 A, 16 A, B, or C characteristic; an external DC fuse is required for the DC input voltage
Feedback voltage	Max. 25 VDC	Max. 25 VDC
Mechanical Data		
Connectors	Input/Output: WAGO 231 Series Signaling: WAGO 733 Series	Input/Output: WAGO 231 Series Signaling: WAGO 733 Series
Conductor range	Input/Output: 0.08 ... 2.5 mm ² / 28 ... 12 AWG Signaling: 0.08 ... 0.5 mm ² / 28 ... 20 AWG	Input/Output: 0.08 ... 2.5 mm ² / 28 ... 12 AWG Signaling: 0.08 ... 0.5 mm ² / 28 ... 20 AWG
Strip length	Input/Output: 8 ... 9 mm / 0.31 ... 0.35 inch Signaling: 5 ... 6 mm / 0.2 ... 0.24 inch	Input/Output: 8 ... 9 mm / 0.31 ... 0.35 inch Signaling: 5 ... 6 mm / 0.2 ... 0.24 inch
Dimensions (mm) W x H x L	40 x 163 x 163 (incl. female connector), Length from upper-edge of DIN-35 rail	57 x 163 x 163 (incl. female connector), Length from upper-edge of DIN-35 rail
Weight	800 g	1295 g

Switched-Mode Power Supply, 1-Phase

EPSITRON® PRO Power

787 Series



EPSITRON® Switched-Mode Power Supply, PRO Power, 1-phase, output: 12 VDC / 15 A, TopBoost + PowerBoost, DC OK contact

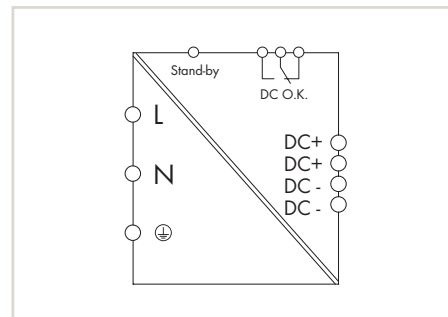
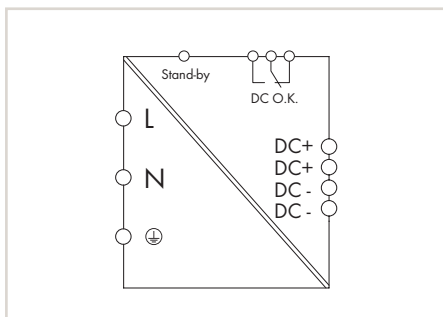
Item No.	Pack. Unit
787-831	1

EPSITRON® Switched-Mode Power Supply, PRO Power, 1-phase, output: 24 VDC / 3 A, TopBoost + PowerBoost, DC OK contact

Item No.	Pack. Unit
787-818	1

Electrical Data

Nominal input voltage $U_{I,nom}$	110 ... 240 VAC	100 ... 240 VAC
Input voltage derating	-1.5 % / VAC < 110 VAC	-5 % / VAC < 95 VAC
Input current I_I	0.9 A at 240 VAC and 15 ADC	0.51 A at 240 VAC and 3 ADC
Inrush current	< 8 A (active inrush current limitation)	< 30 A (peak)
Mains failure hold-up time	30 ms typ. at 230 VAC	70 ms typ. at 230 VAC
Nominal output voltage $U_{O,nom}$	12 VDC (SELV)	24 VDC (SELV)
Output voltage range	11 ... 18 VDC adjustable	22 ... 29.5 VDC adjustable
Factory preset	12 VDC	24 VDC
Output current I_O	15 A at 12 VDC	3 A at 24 VDC
Overload behavior	TopBoost / PowerBoost / Constant current	TopBoost / PowerBoost / Constant current
PowerBoost	30 ADC (for 4 s), 22.5 ADC (for 8 s)	6 ADC (for 4 s), 4.5 ADC (for 8 s)
TopBoost	55 ADC (for 25 ms)	14 ADC (for 25 ms)
Efficiency	87 % typ.	87.8 % typ.
Power loss P_V	0.8 W (stand-by) / 4.6 W (no load) / 23.4 W (rated load)	0.5 W (stand-by) / 3.0 W (no load) / 8.8 W (rated load)
Internal fuse	T 6.3 A / 250 V	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.	Circuit breakers 6 A, 10 A, 16 A, B or C characteristic; an external DC fuse is required for the DC input voltage.
Feedback voltage	Max. 25 VDC	Max. 35 VDC
Mechanical Data		
Connectors	Input/Output: WAGO 231 Series Signaling: WAGO 733 Series	Input/Output: WAGO 231 Series Signaling: WAGO 733 Series
Conductor range	Input/Output: 0.08 ... 2.5 mm ² / 28 ... 12 AWG Signaling: 0.08 ... 0.5 mm ² / 28 ... 20 AWG	Input/Output: 0.08 ... 2.5 mm ² / 28 ... 12 AWG Signaling: 0.08 ... 0.5 mm ² / 28 ... 20 AWG
Strip length	Input/Output: 8 ... 9 mm / 0.31 ... 0.35 inch Signaling: 5 ... 6 mm / 0.2 ... 0.24 inch	Input/Output: 8 ... 9 mm / 0.31 ... 0.35 inch
Dimensions (mm) W x H x L	57 x 163 x 179 (incl. female connector), Length from upper-edge of DIN-35 rail	40 x 163 x 163 (incl. female connector), Length from upper-edge of DIN-35 rail
Weight	1480 g	960 g



EPSITRON® Switched-Mode Power Supply,
PRO Power, 1-phase,
output: 24 VDC / 5 A, TopBoost + PowerBoost,
DC OK contact

Item No.	Pack. Unit
787-822	1

EPSITRON® Switched-Mode Power Supply,
PRO Power, 1-phase,
output: 24 VDC / 10 A, TopBoost + PowerBoost,
DC OK contact

Item No.	Pack. Unit
787-832	1

Electrical Data

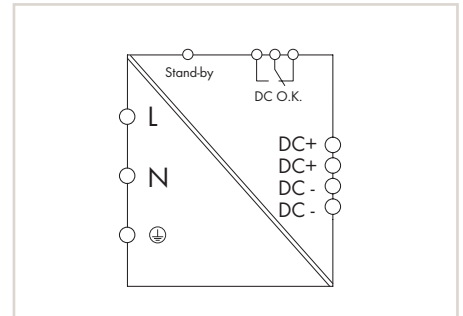
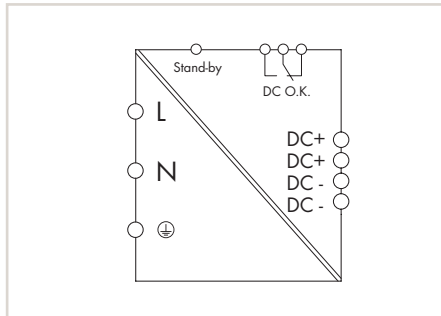
Nominal input voltage $U_{i,nom}$	100 ... 240 VAC
Input voltage derating	-5 % / VAC < 95 VAC
Input current I_i	0.97 A at 240 VAC and 5 VDC
Inrush current	< 30 A (peak)
Mains failure hold-up time	35 ms typ. at 230 VAC
Nominal output voltage $U_{o,nom}$	24 VDC (SELV)
Output voltage range	22 ... 29.5 VDC adjustable
Factory preset	24 VDC
Output current I_o	5 A at 24 VDC
Overload behavior	TopBoost / PowerBoost / Constant current
PowerBoost	10 ADC (for 4 s), 7.5 ADC (for another 4 s)
TopBoost	21 ADC (for 25 ms)
Efficiency	87.8 % typ.
Power loss P_V	0.5 W (stand-by) / 5.0 W (no load) / 14.6 W (nominal load)
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.
Feedback voltage	Max. 35 VDC
Mechanical Data	
Connectors	Input/Output: WAGO 231 Series Signaling: WAGO 733 Series
Conductor range	Input/Output: 0.08 ... 2.5 mm ² / 28 ... 12 AWG Signaling: 0.08 ... 0.5 mm ² / 28 ... 20 AWG
Strip length	Input/Output: 8 ... 9 mm / 0.31 ... 0.35 inch Signaling: 5 ... 6 mm / 0.2 ... 0.24 inch
Dimensions (mm) W x H x L	57 x 163 x 163 (incl. female connector), Length from upper-edge of DIN-35 rail
Weight	1268 g

Nominal input voltage	110 ... 240 VAC
Input voltage derating	-1.5 % / VAC < 110 VAC
Input current	1.2 A at 240 VAC and 10 VDC
Inrush current	< 8 A (active inrush current limitation)
Mains failure hold-up time	24 ms typ. at 230 VAC
Nominal output voltage	24 VDC (SELV)
Output voltage range	22 ... 29.5 VDC adjustable
Factory preset	24 VDC
Output current	10 A at 24 VDC
Overload behavior	TopBoost / PowerBoost / Constant current
PowerBoost	20 ADC (for 4 s), 15 ADC (for another 4 s)
TopBoost	60 ADC (for 25 ms)
Efficiency	90 % (typ.)
Power loss P_V	0.8 W (stand-by) / 3.8 W (no load) / 24 W (rated load)
Internal fuse	T 6.3 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.
Feedback voltage	Max. 35 VDC
Mechanical Data	
Connectors	Input/Output: WAGO 231 Series Signaling: WAGO 733 Series
Conductor range	Input/Output: 0.08 ... 2.5 mm ² / 28 ... 12 AWG Signaling: 0.08 ... 0.5 mm ² / 28 ... 20 AWG
Strip length	Input/Output: 8 ... 9 mm / 0.31 ... 0.35 inch
Dimensions (mm) W x H x L	57 x 163 x 179 (incl. female connector), Length from upper-edge of DIN-35 rail
Weight	1485 g

Switched-Mode Power Supply, 1-Phase

EPSITRON® PRO Power

787 Series



EPSITRON® Switched-Mode Power Supply, PRO Power, 1-phase, output: 24 VDC / 20 A, TopBoost + PowerBoost, DC OK contact

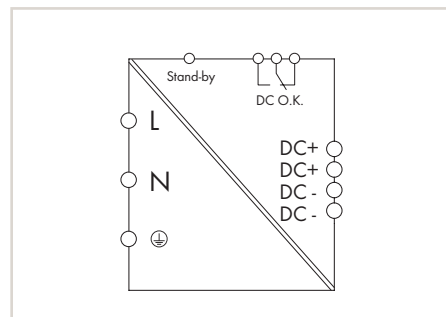
Item No.	Pack. Unit
787-834	1

EPSITRON® Switched-Mode Power Supply, PRO Power, 1-phase, output: 48 VDC / 5 A, TopBoost + PowerBoost, DC OK contact

Item No.	Pack. Unit
787-833	1

Electrical Data

Nominal input voltage $U_{I,nom}$	110 ... 240 VAC	110 ... 240 VAC
Input voltage derating	-1.5 % / VAC < 110 VAC	-1.5 % / VAC < 110 VAC
Input current I_i	2.3 A at 230 VAC and 20 ADC	1.2 A at 230 VAC and 5 ADC
Inrush current	< 8 A (active inrush current limitation)	< 8 A (active inrush current limitation)
Mains failure hold-up time	25 ms typ. at 230 VAC	20 ms typ. at 230 VAC
Nominal output voltage $U_{O,nom}$	24 VDC (SELV)	48 VDC, (SELV)
Output voltage range	22 ... 29.5 VDC adjustable	33 ... 52 VDC adjustable
Factory preset	24 VDC	48 VDC
Output current I_o	20 A at 24 VDC	5 A at 48 VDC
Overload behavior	TopBoost / PowerBoost / Constant current	TopBoost / PowerBoost / Constant current
PowerBoost	30 ADC (for 4 s), 25 ADC (for 8 s)	10 ADC (for 4 s), 7.5 ADC (for 8 s)
TopBoost	80 ADC (for 25 ms)	30 ADC (for 25 ms)
Efficiency	91 % (typ.)	91 % (typ.)
Power loss P_v	0.8 W (stand-by) / 4.8 W (no load) / 43.2 W (rated load)	0.8 W (stand-by) / 7.4 W (no load) / 21.6 W (rated load)
Internal fuse	T 10 A / 250 V	T 6.3 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.	Circuit breakers 6 A, 10 A, 16 A, B or C characteristic; an external DC fuse is required for the DC input voltage.
Feedback voltage	Max. 35 VDC	Max. 63 VDC
Mechanical Data		
Connectors	Input: WAGO 231 Series Output: WAGO 831 Series Signaling: WAGO 733 Series	Input/Output: WAGO 231 Series Signaling: WAGO 733 Series
Conductor range	Input/Output: 0.08 ... 2.5 mm ² / 28 ... 12 AWG Signaling: 0.08 ... 0.5 mm ² / 28 ... 20 AWG	Input/Output: 0.08 ... 2.5 mm ² / 28 ... 12 AWG Signaling: 0.08 ... 0.5 mm ² / 28 ... 20 AWG
Strip length	Input: 0.08 ... 2.5 mm ² / 28 ... 12 AWG Output: 0.5 ... 10 mm ² / 20 ... 8 AWG Signaling: 0.08 ... 0.5 mm ² / 28 ... 20 AWG	Input/Output: 8 ... 9 mm / 0.31 ... 0.35 inch Signaling: 5 ... 6 mm / 0.2 ... 0.24 inch
Dimensions (mm) W x H x L	97 x 171 x 187 (incl. female connector), Length from upper-edge of DIN-35 rail	57 x 163 x 179 (incl. female connector), Length from upper-edge of DIN-35 rail
Weight	2300 g	1475 g



EPSITRON® Switched-Mode Power Supply,
PRO Power, 1-phase,
output: 48 VDC / 10 A, TopBoost + PowerBoost,
DC OK contact

Item No.	Pack. Unit
787-835	1

Electrical Data

Nominal input voltage $U_{i, nom}$	110 ... 240 VAC
Input voltage derating	-1.5 % / VAC < 110 VAC
Input current I_i	2.3 A at 230 VAC and 10 ADC
Inrush current	< 8 A (active inrush current limitation)
Mains failure hold-up time	20 ms typ. at 230 VAC
Nominal output voltage $U_{o, nom}$	48 VDC, (SELV)
Output voltage range	33 ... 52 VDC adjustable
Factory preset	48 VDC
Output current I_o	10 A at 48 VDC
Overload behavior	TopBoost / PowerBoost / Constant current
PowerBoost	17.5 ADC (for 4 s), 15 ADC (for 8 s)
TopBoost	60 ADC (for 25 ms)
Efficiency	91 % (typ.)
Power loss P_V	0.8 W (stand-by) / 4.8 W (no load) / 43.2 W (rated load)
Internal fuse	T 10 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.
Feedback voltage	Max. 63 VDC

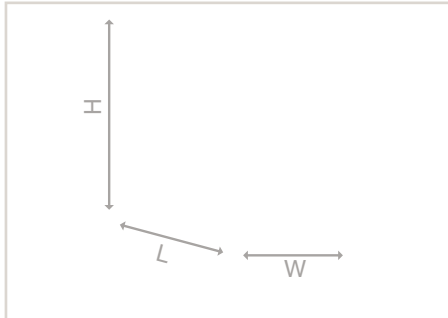
Mechanical Data

Connectors	Input: WAGO 231 Series Output: WAGO 831 Series Signaling: WAGO 733 Series
Conductor range	Input: 0.08 ... 2.5 mm ² / 28 ... 12 AWG Output: 0.5 ... 10 mm ² / 20 ... 8 AWG Signaling: 0.08 ... 0.5 mm ² / 28 ... 20 AWG
Strip length	Input: 8 ... 9 mm / 0.31 ... 0.35 inch Output: 13 ... 15 mm / 0.51 ... 0.59 inch Signaling: 5 ... 6 mm / 0.2 ... 0.24 inch
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

Switched-Mode Power Supply, 3-Phase

EPSITRON® PRO Power

787 Series

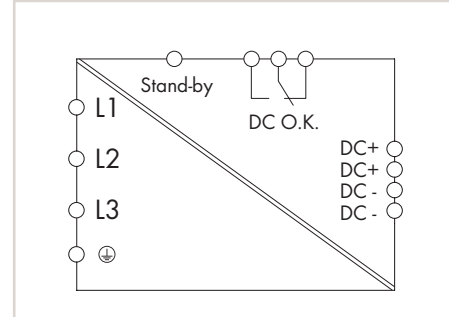
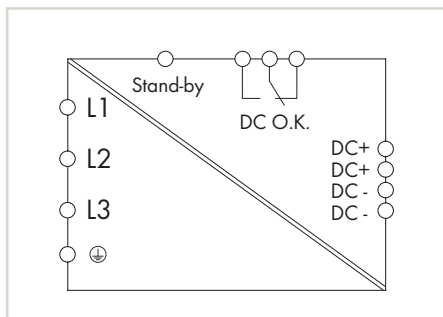


Features:

- Switched-Mode Power Supply unit with PowerBoost and TopBoost
- Stand-by input for switching off the output and minimizing power consumption (787-84x only)
- DC OK contact for output monitoring (787-84x only)
- Suitable for both parallel and series operation
- Natural convection cooling when horizontally mounted
- Enclosed for use in control cabinets
- Electrically isolated output voltage (SELV) acc. to EN 60950-1/UL 60950-1; PELV acc. to EN 60204
- LineMonitor for parameter setting and monitoring (787-85x only)
- RS-232 serial interface (787-85x only)
- 4 signal outputs (787-85x only)

Technical Data

Input	
Nominal input voltage $U_{i, \text{nom}}$	3 x (2 x) 400 ... 500 VAC
Input voltage range	340 ... 550 VAC; 480 ... 780 VDC
Frequency	50 ... 60 Hz
Discharge current	1 mA (typ.)
Inrush current	< 30 A
Output	
Nominal output voltage $U_{o, \text{nom}}$	24 VDC (SELV)
Output voltage range	22.8 ... 28.8 VDC adjustable
Factory preset	24 VDC
Adjustment accuracy	1 %
Residual ripple	< 70 mV (peak-to-peak)
Current limitation	1.1 x I_o , typ.
General Specifications	
Standards/Approvals	EN 60950, EN 61204-3, UL 60950, UL 508
Environmental Requirements	
Ambient operating temperature	-25 ... +70 °C Device start at -40 °C type-tested
Storage temperature	-25 ... +85 °C
Relative humidity	5 % ... 96 % (no condensation permissible)
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 / 2.2 kV DC / 0.7 kV DC
Protection class	I
Degree of protection	IP20 per EN 60529
Overvoltage category	II
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
MTBF	> 500,000 h (acc. to IEC 61709)
Connection and Type of Mounting	
Type of mounting	DIN-rail-mounting (EN 60715) in 2 positions



EPSITRON® Switched-Mode Power Supply, PRO Power, 3-phase, output: 24 VDC / 10 A, TopBoost + PowerBoost, DC OK contact

Item No.	Pack. Unit
787-840	1

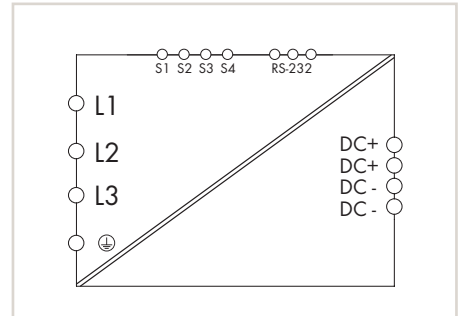
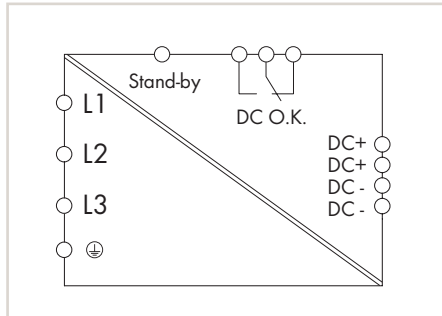
EPSITRON® Switched-Mode Power Supply, PRO Power, 3-phase, output: 24 VDC / 20 A, TopBoost + PowerBoost, DC OK contact

Item No.	Pack. Unit
787-842	1

Electrical Data

Input current I_i	3 x 0.6 A at 340 VAC and 10 ADC	3 x 1.1 A at 340 VAC and 20 ADC
Mains failure hold-up time	22 ms typ. at 3 x 400 VAC	13 ms typ. at 3 x 400 VAC
Output current I_o	10 A at 24 VDC	20 A at 24 VDC
PowerBoost	20 ADC (for 4 s), 15 ADC (for 16 s)	40 ADC (for 4 s), 30 ADC (for 16 s)
TopBoost	70 ADC (for 50 ms)	80 ADC (for 50 ms)
Overload behavior	TopBoost / PowerBoost / Constant current	TopBoost / PowerBoost / Constant current
Operational indication	LED green (DC OK), LED red (error)	LED green (DC OK), LED red (error)
Efficiency	91.7 % (typ.)	92.9 % (typ.)
Power loss P_v	7.8 W (stand-by) / 19.9 W (nominal load)	8.3 V (stand-by) / 34.1 W (nominal load)
Internal fuse	3 x T 2.5 A / 440 V	3 x T 2.5 A / 440 V
External fuse	3 x circuit breakers 6 A, 10 A, 16 A, B or C characteristic; 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.	3 x circuit breakers 6 A, 10 A, 16 A, B or C characteristic; or motor circuit breaker, setpoint 2.5 A, setting range 2.5 ... 4.0 A; ; an external DC fuse is required for the DC input voltage.
Derating	-3 % / K (> +50 °C)	-3 % / K (> +50 °C)
Mechanical Data		
Connectors	Input/Output: WAGO 231 Series Signaling: WAGO 733 Series	Input: WAGO 231 Series Output: WAGO 831 Series Signaling: WAGO 733 Series
Conductor range	Input/Output: 0.08 ... 2.5 mm ² / 28 ... 12 AWG Signaling: 0.08 ... 0.5 mm ² / 28 ... 20 AWG	Input: 0.08 ... 2.5 mm ² / 28 ... 12 AWG Output: 0.5 ... 10 mm ² / 20 ... 8 AWG Signaling: 0.08 ... 0.5 mm ² / 28 ... 20 AWG
Strip length	Input/Output: 8 ... 9 mm / 0.31 ... 0.35 inch Signaling: 5 ... 6 mm / 0.2 ... 0.24 inch	Input: 8 ... 9 mm / 0.31 ... 0.35 inch Output: 13 ... 15 mm / 0.51 ... 0.59 inch Signaling: 5 ... 6 mm / 0.2 ... 0.24 inch
Dimensions (mm) W x H x L	57 x 163 x 179 (incl. female connector), Length from upper-edge of DIN-35 rail	77 x 171 x 179 (incl. female connector), Length from upper-edge of DIN-35 rail
Weight	1000 g	1300 g

Switched-Mode Power Supply, 3-Phase EPSITRON® PRO Power 787 Series



EPSITRON® Switched-Mode Power Supply, PRO Power, 3-phase, output: 24 VDC / 40 A, TopBoost + PowerBoost, DC OK contact

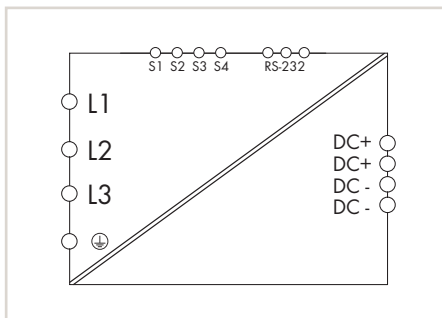
	Item No.	Pack. Unit
	787-844	1
with lateral DIN-rail support	787-844/000-002	1

EPSITRON® Switched-Mode Power Supply, PRO Power, 3-phase, output: 24 VDC / 10 A, TopBoost + PowerBoost, LineMonitor, RS-232, Signal outputs

	Item No.	Pack. Unit
	787-850	1

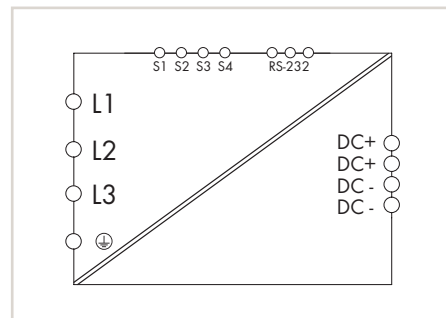
Electrical Data

Input current I_i	3 x 2.0 A at 340 VAC and 40 ADC	3 x 0.6 A at 340 VAC and 10 ADC
Mains failure hold-up time	15 ms typ. at 3 x 400 VAC	22 ms typ. at 3 x 400 VAC
Output current I_o	40 A at 24 VDC	10 A at 24 VDC
PowerBoost	60 ADC (for 4 s), 50 ADC (for 16 s)	20 ADC (for 4 s), 15 ADC (for 16 s)
TopBoost	100 ADC (for 50 ms)	70 ADC (for 50 ms)
Overload behavior	TopBoost / PowerBoost / Constant current	adjustable (constant current / fuse mode)
Operational indication	LED green (DC OK), LED red (error)	LED green (DC OK), LED yellow (warning), LED red (error)
Signaling	-	LED, LCD, 4 x signal output 24 VDC, 25 mA
LineMonitor, parameter setting	-	via LCD and RS-232 serial interface
Efficiency	93.6 % (typ.)	91.7 % (typ.)
Power loss P_v	7.0 W (stand-by) / 61.5 W (nominal load)	7.8 W (stand-by) / 19.9 W (nominal load)
Internal fuse	3 x T 3.2 A / 440 V	3 x T 2.5 A / 440 V
External fuse	3 x circuit breakers 6 A, 10 A, 16 A, B or C characteristic; 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.	3 x circuit breakers 6 A, 10 A, 16 A, B or C characteristic; 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.
Derating	-5 % / K (>45 °C)	-3 % / K (> +50 °C)
Mechanical Data		
Connectors	Input: WAGO 231 Series Output: WAGO 831 Series Signaling: WAGO 733 Series	Input/Output: WAGO 231 Series Signaling: WAGO 733 Series
Conductor range	Input: 0.08 ... 2.5 mm ² / 28 ... 12 AWG Output: 0.5 ... 10 mm ² / 20 ... 8 AWG Signaling: 0.08 ... 0.5 mm ² / 28 ... 20 AWG	Input/Output: 0.08 ... 2.5 mm ² / 28 ... 12 AWG Signaling: 0.08 ... 0.5 mm ² / 28 ... 20 AWG
Strip length	Input: 8 ... 9 mm / 0.31 ... 0.35 inch Output: 13 ... 15 mm / 0.51 ... 0.59 inch Signaling: 5 ... 6 mm / 0.2 ... 0.24 inch	Input/Output: 8 ... 9 mm / 0.31 ... 0.35 inch Signaling: 5 ... 6 mm / 0.2 ... 0.24 inch
Dimensions (mm) W x H x L	128 x 171 x 205 (incl. female connector), Length from upper-edge of DIN-35 rail	57 x 163 x 179 (incl. female connector), Length from upper-edge of DIN-35 rail
Weight	2500 g	1000 g



EPSITRON® Switched-Mode Power Supply, PRO Power, 3-phase, output: 24 VDC / 20 A, TopBoost + PowerBoost, LineMonitor, RS-232, Signal outputs

	Item No.	Pack. Unit
	787-852	1



EPSITRON® Switched-Mode Power Supply, PRO Power, 3-phase, output: 24 VDC / 40 A, TopBoost + PowerBoost, LineMonitor, RS-232, Signal outputs

	Item No.	Pack. Unit
	787-854	1

5

Electrical Data

Input current I_i	3 x 1.1 A at 340 VAC and 20 ADC
Mains failure hold-up time	13 ms typ. at 3 x 400 VAC
Output current I_o	20 A at 24 VDC
PowerBoost	40 ADC (for 4 s), 30 ADC (for 16 s)
TopBoost	80 ADC (for 50 ms)
Overload behavior	adjustable (constant current / fuse mode)
Operational indication	LED green (DC OK), LED yellow (warning), LED red (error)
Signaling	LED, LCD, 4 x signal output 24 VDC, 25 mA
LineMonitor, parameter setting	via LCD and RS-232 serial interface
Efficiency	92.9 % (typ.)
Power loss P_V	8.3 W (stand-by) / 34.1 W (nominal load)
Internal fuse	3 x T 2.5 A / 440 V
External fuse	3 x circuit breakers 6 A, 10 A, 16 A, B or C characteristic; 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.
Derating	-3 % / K (>50 °C)

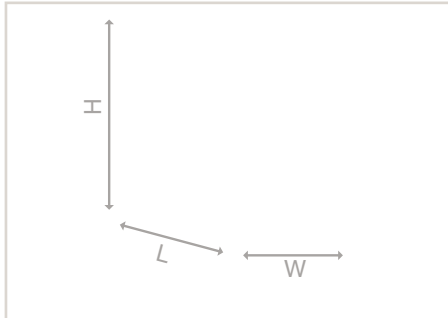
Mechanical Data

Connectors	Input: WAGO 231 Series Output: WAGO 831 Series Signaling: WAGO 733 Series
Conductor range	Input: 0.08 ... 2.5 mm ² / 28 ... 12 AWG Output: 0.5 ... 10 mm ² / 20 ... 8 AWG Signaling: 0.08 ... 0.5 mm ² / 28 ... 20 AWG
Strip length	Input: 8 ... 9 mm / 0.31 ... 0.35 inch Output: 13 ... 15 mm / 0.51 ... 0.59 inch Signaling: 5 ... 6 mm / 0.2 ... 0.24 inch
Dimensions (mm) W x H x L	77 x 171 x 179 (incl. female connector), Length from upper-edge of DIN-35 rail
Weight	1300 g

Input current I_i	3 x 2.0 A at 340 VAC
Mains failure hold-up time	15 ms typ. at 3 x 400 VAC
Output current I_o	40 A at 24 VDC
PowerBoost	60 ADC (for 4 s), 50 ADC (for 16 s)
TopBoost	100 ADC (for 50 ms)
Overload behavior	adjustable (constant current / fuse mode)
Operational indication	LED green (DC OK), LED yellow (warning), LED red (error)
Signaling	LED, LCD, 4 x signal output 24 VDC, 25 mA
LineMonitor, parameter setting	via LCD and RS-232 serial interface
Efficiency	93.6 % (typ.)
Power loss P_V	7.0 W (stand-by) / 61.5 W (nominal load)
Internal fuse	3 x T 3.2 A / 440 V
External fuse	3 x circuit breakers 6 A, 10 A, 16 A, B or C characteristic; 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.
Derating	-5 % / K (>45 °C)

Connectors	Input: WAGO 231 Series Output: WAGO 831 Series Signaling: WAGO 733 Series
Conductor range	Input: 0.08 ... 2.5 mm ² / 28 ... 12 AWG Output: 0.5 ... 10 mm ² / 20 ... 8 AWG Signaling: 0.08 ... 0.5 mm ² / 28 ... 20 AWG
Strip length	Input: 8 ... 9 mm / 0.31 ... 0.35 inch Output: 13 ... 15 mm / 0.51 ... 0.59 inch Signaling: 5 ... 6 mm / 0.2 ... 0.24 inch
Dimensions (mm) W x H x L	128 x 171 x 205 (incl. female connector), Length from upper-edge of DIN-35 rail
Weight	2300 g

Switched-Mode Power Supply, 3-Phase EPSITRON® PRO Power 787 Series

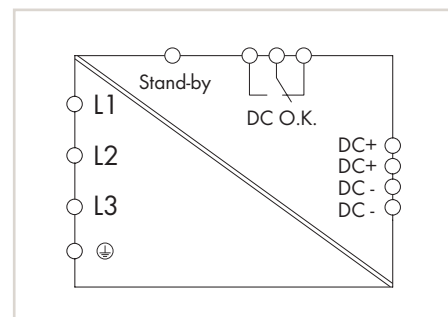
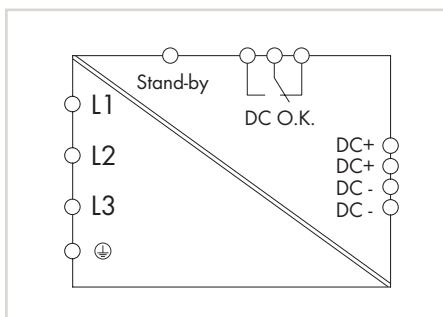


Features:

- Switched-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
- Suitable for both parallel and series operation
- Natural convection cooling when horizontally mounted
- Enclosed for use in control cabinets
- Electrically isolated output voltage (SELV) acc. to EN 60950-1/UL 60950-1; PELV acc. to EN 60204

Technical Data

Input	
Nominal input voltage $U_{i, \text{nom}}$	3 x (2 x) 400 ... 500 VAC
Input voltage range	340 ... 550 VAC; 480 ... 780 VDC
Frequency	50 ... 60 Hz
Discharge current	1 mA (typ.)
Inrush current	< 30 A (peak)
Output	
Nominal output voltage $U_{o, \text{nom}}$	48 VDC, (SELV)
Output voltage range	39 ... 53 VDC adjustable
Factory preset	48 VDC
Adjustment accuracy	1 %
Residual ripple	< 70 mV (peak-to-peak)
Current limitation	1.1 x I_o typ.
Overload behavior	TopBoost/PowerBoost/Constant current
Operational indication	LED green (DC OK), LED red (error)
General Specifications	
Standards/Approvals	EN 60950, EN 61204-3, UL 60950, UL 508
Environmental Requirements	
Ambient operating temperature	-25 ... +70 °C Device start at -40 °C type-tested
Storage temperature	-25 ... +85 °C
Relative humidity	5 % ... 96 % (no condensation permissible)
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 / 2.2 kV DC / 0.7 kV DC
Protection class	I
Degree of protection	IP20 per EN 60529
Overvoltage category	II
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
MTBF	> 500,000 h (acc. to IEC 61709)
Connection and Type of Mounting	
Connectors	Input: WAGO 231 Series Output: WAGO 831 Series Signaling: WAGO 733 Series
Conductor range	Input: 0.08 ... 2.5 mm ² / 28 ... 12 AWG Output: 0.5 ... 10 mm ² / 20 ... 8 AWG Signaling: 0.08 ... 0.5 mm ² / 28 ... 20 AWG
Strip length	Input: 8 ... 9 mm / 0.31 ... 0.35 inch Output: 13 ... 15 mm / 0.51 ... 0.59 inch Signaling: 5 ... 6 mm / 0.2 ... 0.24 inch
Type of mounting	DIN-rail-mounting (EN 60715) in 2 positions



EPSITRON® Switched-Mode Power Supply, PRO Power, 3-phase, output: 48 VDC / 10 A, TopBoost + PowerBoost, DC OK contact

Item No.	Pack. Unit
787-845	1

EPSITRON® Switched-Mode Power Supply, PRO Power, 3-phase, output: 48 VDC / 20 A, TopBoost + PowerBoost, DC OK contact

Item No.	Pack. Unit
787-847	1

Electrical Data

Input current I_i	3 x 1.1 A at 340 VAC and 10 ADC
Mains failure hold-up time	12 ms typ. at 3 x 400 VAC
Output current I_o	10 A at 48 VDC
PowerBoost	15 ADC (for 4 s), 12.5 ADC (for 16 s)
TopBoost	55 ADC (for 50 ms)
Efficiency	93 % (typ.)
Power loss P_v	0.8 W (stand-by) / 8.2 W (no load) / 38 W (rated load)
Internal fuse	3 x T 2.5 A / 440 V
External fuse	3 x circuit breakers 6 A, 10 A, 16 A, B or C characteristic; 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.
Derating	-3 % / K (> +50°C)

Mechanical Data

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

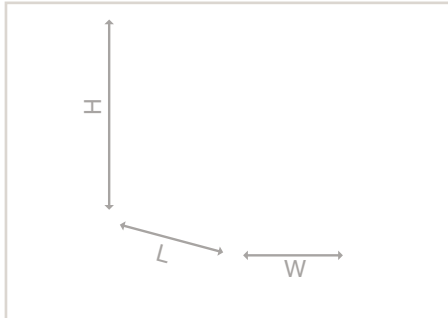
Input current I_i	3 x 2.0 A at 340 VAC and 20 ADC
Mains failure hold-up time	15 ms typ. at 3 x 400 VAC
Output current I_o	20 A at 48 VDC
PowerBoost	30 ADC (for 4 s), 25 ADC (for 16 s)
TopBoost	80 ADC (for 25 ms)
Efficiency	94.4 % (typ.)
Power loss P_v	0.8 W (stand-by) / 5.2 W (no load) / 59.2 W (rated load)
Internal fuse	3 x T 3.2 A / 440 V
External fuse	3 x circuit breakers 6 A, 10 A, 16 A, B or C characteristic; 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.
Derating	-5 % / K (> +45°C)

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

Switched-Mode Power Supply, 1-Phase

EPSITRON® CLASSIC Power

787 Series



Features:

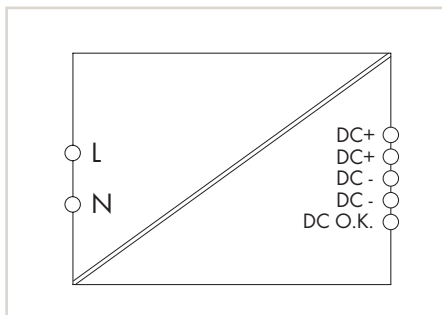
- Switched-Mode Power Supply unit
- Natural convection cooling when horizontally mounted
- Enclosed for use in switchgear cabinets
- Bounce-free switching signal (DC OK)
- Suitable for both parallel and series operation
- Electrically isolated output voltage (SELV) acc. to EN 60950-1/UL 60950-1; PELV acc. to EN 60204
- GL approval: also suitable for EMC 1 only in conjunction with 787-980 filter module (787-1601, -1611, -1621)

Technical Data

Input	
Nominal input voltage $U_{i, \text{nom}}$	100 ... 240 VAC
Input voltage range	85 ... 264 VAC; 120 ... 372 VDC
Frequency	44 ... 66 Hz; 0 Hz
Inrush current	< 30 A
Output	
Nominal output voltage $U_{o, \text{nom}}$	12 VDC (SELV)
Factory preset	12 VDC
Adjustment accuracy	< 1 %
Current limitation	1.1 x I_o typ.
Overload behavior	Constant current (787-1601 ... -1635), TopBoost (787-1622, 787-1631 ... -1635)
Operational indication	LED green (U_o)
Environmental Requirements	
Ambient operating temperature	-25 ... +70 °C Device start at -40 °C type-tested
Storage temperature	-25 ... +85 °C
Relative humidity	5 % ... 96 % (no condensation permissible)
Degree of pollution	2 (acc. to EN 50178)
Climatic category	3K3 (acc. to EN 60721)
Safety and Protection	
Degree of protection	IP20 per EN 60529
Overvoltage category	II
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	
Connectors	Input/Output/Signaling WAGO 721 Series
Conductor range	Input/Output/Signaling 0.08 ... 2.5 mm ² / 28 ... 12 AWG
Strip length	Input/Output/Signaling 8 ... 9 mm / 0.31 ... 0.35 inch
Type of mounting	DIN-rail mounting (EN 60715)



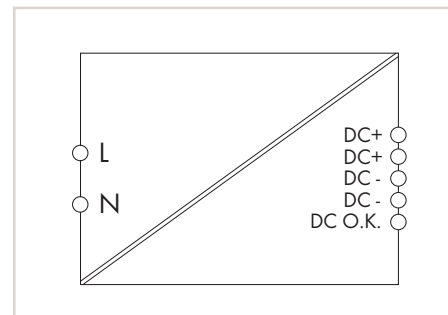
Similar to pictured device



EPSITRON® Switched-Mode Power Supply,
CLASSIC Power, 1-phase,
output: 12 VDC / 2 A, NEC Class 2,
DC OK contact

Item No.	Pack. Unit
787-1601	1

NEC Class 2 acc. to UL 60950



EPSITRON® Switched-Mode Power Supply,
CLASSIC Power, 1-phase,
output: 12 VDC / 4 A, NEC Class 2,
DC OK contact

Item No.	Pack. Unit
787-1611	1

NEC Class 2 acc. to UL 60950

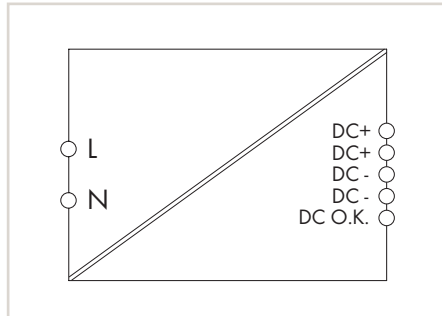
Electrical Data

Input current I_i	0.29 A (240 VAC); 0.5 A (100 VAC)	0.46 A (240 VAC); 0.86 A (100 VAC)
Input voltage derating	-2.5 % (< 95 VAC)	-2.5 % (< 95 VAC)
Discharge current		
Mains failure hold-up time	120 ms (230 VAC); 15 ms (100 VAC)	120 ms (230 VAC); 15 ms (100 VAC)
Output voltage range	11.5 ... 14.5 VDC adjustable	11.5 ... 14.5 VDC adjustable
Output current I_o	2 A at 12 VDC (2.1 A up to 40 °C)	4 A at 12 VDC (4.2 A up to 40 °C)
Residual ripple	20 mV (peak-to-peak) typ.	20 mV (peak-to-peak) typ.
Signaling	1 x active signal output 12 VDC, 40 mA	1 x active signal output 12 VDC, 40 mA
Efficiency	82 % (typ.)	86 % (typ.)
Power loss P_v	< 0.7 W (230 VAC, no load); 5.3 W (230 VAC, nominal load)	< 1 W (230 VAC, no load); 8 W (230 VAC, nominal load)
Power loss P_v (max.)	5.7 W typ. (100 VAC / 12 VDC, 2 A)	9.1 W typ. (100 VAC / 12 VDC, 4 A)
Internal fuse	T 2 A / 250 V	T 4 A / 250 V
External fuse	Circuit breakers 6 A, 10 A, 16 A; B or C characteristic; an external DC fuse is re- quired for the DC input voltage.	Circuit breakers 6 A, 10 A, 16 A; B or C characteristic; an external DC fuse is re- quired for the DC input voltage.
Derating	-3 % / K (> 50 °C)	-3 % / K (> 50 °C)
Test voltage Pri.-Sec./Pri.-GND/Sec.-GND	4.2 kV (DC)	4.2 kV (DC)
Protection class	II	II
Overvoltage protection	Varistor (input side); internal protective circuit, < 35 VDC (output side in case of an error)	Varistor (input side); internal protective circuit, < 35 VDC (output side in case of an error)
Mechanical Data		
Dimensions (mm) W x H x L	22.5 x 90 x 107.5 Length from upper-edge of DIN-35 rail	45 x 90 x 107.5 (incl. female connector), Length from upper-edge of DIN-35 rail
Weight	128 g	210 g
General Specifications		
Standards/Approvals	EN 60950-1, EN 61204-3, EN 60335-1, UL 60950-1, UL 508, GL	EN 60950-1, EN 61204-3, EN 60335-1, UL 60950-1, UL 508, GL

Switched-Mode Power Supply, 1-Phase EPSITRON® CLASSIC Power 787 Series



Similar to pictured device

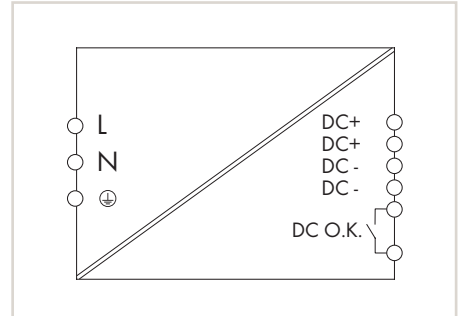


EPSITRON® Switched-Mode Power Supply,
CLASSIC Power, 1-phase,
output: 12 VDC / 7 A, DC OK contact

Item No.	Pack. Unit
787-1621	1



Similar to pictured device



EPSITRON® Switched-Mode Power Supply,
CLASSIC Power, 1-phase,
output: 12 VDC / 15 A, DC OK contact

Item No.	Pack. Unit
787-1631	1

Integrated TopBoost, enabling secondary-side protection via wire breakers

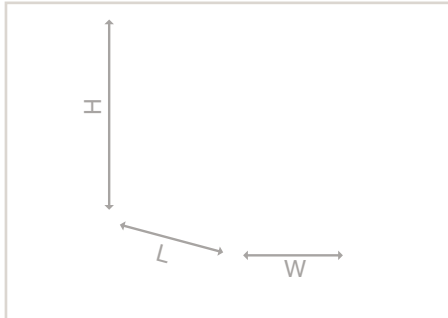
Electrical Data

Input current I _i	0.9 A (240 VAC); 1.66 A (100 VAC)	0.93 A (240 VAC); 2.05 A (100 VAC)
Input voltage derating	-2.5 % (< 95 VAC)	-2.5 % (< 100 VAC)
Discharge current		< 1 mA
Mains failure hold-up time	80 ms (230 VAC); 15 ms (100 VAC)	28 ms (230 VAC); 28 ms (100 VAC)
Output voltage range	11.5 ... 14.5 VDC adjustable	11.5 ... 15 VDC adjustable
Output current I _o	7 A at 12 VDC (7.5 A up to 40 °C)	15 A at 12 VDC
Residual ripple	20 mV (peak-to-peak) typ.	35 mV (peak-to-peak) typ.
Signaling	1 x active signal output 12 VDC, 40 mA	DC OK contact; (Make contact, max. 30 VAC/DC, 1 A)
Efficiency	86 % (typ.)	90 % (typ.)
Power loss P _v	< 1 W (230 VAC, no load); 16.2 W (230 VAC, nominal load)	4.4 W (230 VAC, no load); 21.8 W (230 VAC, nominal load)
Power loss P _v (max.)	19.8 W typ. (100 VAC / 12 VDC, 7 A)	24.7 W typ. (100 VAC / 12 VDC, 15 A)
Internal fuse	T 4 A / 250 V	T 6.3 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	Circuit breakers 10 A, 16 A, B or C characteristic; an external DC fuse is required for the DC input voltage
Derating	-3 % / K (> 50 °C)	-5 % / K (>60 °C, 196 ... 264 VAC) -2.5 % / K (>50 °C, 85 ... 195 VAC)
Test voltage Pri.-Sec./Pri.-GND/Sec.-GND	4.2 kV (DC)	4.2 kV DC / 2.2 kV DC / 0.7 kV DC
Protection class	II	I
Overvoltage protection	Varistor (input side); internal protective circuit, < 32 VDC (output side in case of an error)	Varistor (input side); internal protective circuit, < 20 VDC (output side in case of an error)
Mechanical Data		
Dimensions (mm) W x H x L	52 x 90 x 119 (incl. female connector), Length from upper-edge of DIN-35 rail	55 x 127 x 172 (incl. female connector), Length from upper-edge of DIN-35 rail
Weight	384 g	930 g
General Specifications		
Standards/Approvals	EN 60950-1, EN 61204-3, EN 60335-1, UL 60950-1, UL 508, GL	EN 60950-1, EN 61204-3, UL 60950-1, UL 508, GL

Switched-Mode Power Supply, 1-Phase

EPSITRON® CLASSIC Power

787 Series



Features:

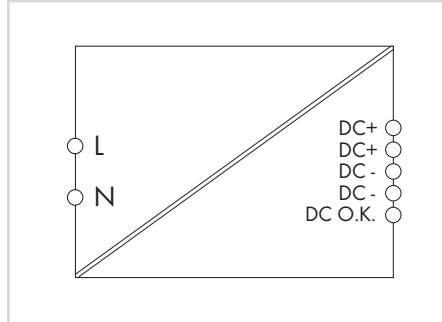
- Switched-Mode Power Supply unit
- Natural convection cooling when horizontally mounted
- Enclosed for use in switchgear cabinets
- Bounce-free switching signal (DC OK)
- Suitable for both parallel and series operation
- Electrically isolated output voltage (SELV) acc. to EN 60950-1/UL 60950-1; PELV acc. to EN 60204
- GL approval: also suitable for EMC 1 only in conjunction with 787-980 filter module (787-1602, 787-1606, 787-1616/000-1000, 787-1622)

Technical Data

Input	
Nominal input voltage $U_{i, \text{nom}}$	100 ... 240 VAC
Input voltage range	85 ... 264 VAC; 120 ... 372 VDC
Frequency	44 ... 66 Hz; 0 Hz
Inrush current	< 30 A
Output	
Nominal output voltage $U_{o, \text{nom}}$	24 VDC (SELV)
Output voltage range	23 ... 28.5 VDC adjustable
Factory preset	24 VDC
Adjustment accuracy	< 1 %
Overload behavior	Constant current
Operational indication	LED green (U_o)
Fuse Protection	
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.
Environmental Requirements	
Ambient operating temperature	-25 ... +70 °C; Device start at -40 °C type-tested
Storage temperature	-25 ... +85 °C
Relative humidity	5 % ... 96 % (no condensation permissible)
Degree of pollution	2 (acc. to EN 50178)
Climatic category	3K3 (acc. to EN 60721)
Safety and Protection	
Degree of protection	IP20 per EN 60529
Overvoltage category	II
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	
Type of mounting	DIN-rail mounting (EN 60715)



Similar to pictured device



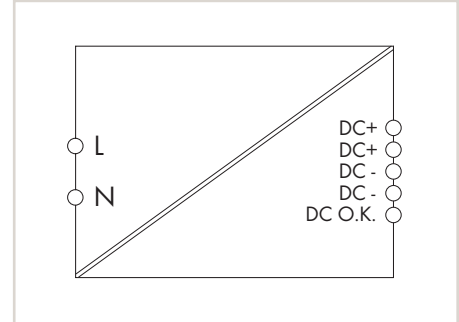
EPSITRON® Switched-Mode Power Supply, CLASSIC Power, 1-phase, output: 24 VDC / 1 A, NEC Class 2, DC OK contact

Item No.	Pack. Unit
787-1602	1

NEC Class 2 acc. to UL 60950



Similar to pictured device



EPSITRON® Switched-Mode Power Supply, CLASSIC Power, 1-phase, output: 24 VDC / 2 A, NEC Class 2, DC OK contact

Item No.	Pack. Unit
787-1606	1

NEC Class 2 acc. to UL 60950

Electrical Data

Input voltage derating	-2.5 % (< 95 VAC)
Input current I _i	0.28 A (240 VAC); 0.49 A (100 VAC)
Mains failure hold-up time	120 ms (230 VAC); 20 ms (100 VAC)
Output current I _o	1 A at 24 VDC (1.2 A up to 40 °C)
Residual ripple	20 mV (peak-to-peak) typ.
Current limitation	1.1 x I _o typ.
Signaling	1 x active signal output 24 VDC, 20 mA
Efficiency	86 % (typ.)
Power loss P _v	< 1 W (230 VAC, no load); 4 W (230 VAC, nominal load)
Power loss P _v (max.)	5 W typ. (100 VAC / 24 VDC, 1 A)
Internal fuse	T 2 A / 250 V
Derating	-3 % / K (> 50 °C)
Test voltage Pri.-Sec./Pri.-GND/Sec.-GND	4.2 kV (DC)
Protection class	II
Overvoltage protection	Varistor (input side); internal protective circuit, < 39 VDC (output side in case of an error)
Connectors	Input/Output/Signaling: WAGO 721 Series
Conductor range	Input/Output/Signaling 0.08 ... 2.5 mm ² / 28 ... 12 AWG
Strip length	Input/Output/Signaling 8 ... 9 mm / 0.31 ... 0.35 inch
Mechanical Data	
Dimensions (mm) W x H x L	22.5 x 90 x 107.5 (incl. female connector), Length from upper-edge of DIN-35 rail
Weight	128 g
General Specifications	
Standards/Approvals	EN 60950-1, EN 61204-3, EN 60335-1, UL 60950-1, UL 508, GL

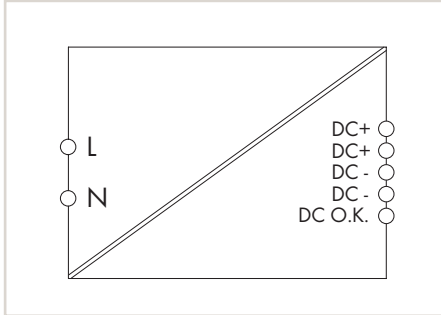
Input voltage derating	-2.5 % (< 95 VAC)
Input current I _i	0.48 A (240 VAC); 0.82 A (100 VAC)
Mains failure hold-up time	120 ms (230 VAC); 20 ms (100 VAC)
Output current I _o	2 A at 24 VDC (2.2 A up to 40 °C)
Residual ripple	20 mV (peak-to-peak) typ.
Current limitation	1.1 x I _o typ.
Signaling	1 x active signal output 24 VDC, 20 mA
Efficiency	89 % (typ.)
Power loss P _v	< 1 W (230 VAC, no load); 6 W (230 VAC, nominal load)
Power loss P _v (max.)	7 W typ. (100 VAC / 24 VDC, 2 A)
Internal fuse	T 4 A / 250 V
Derating	-3 % / K (> 50 °C)
Test voltage Pri.-Sec./Pri.-GND/Sec.-GND	4.2 kV (DC)
Protection class	II
Overvoltage protection	Varistor (input side); internal protective circuit, < 37 VDC (output side in case of an error)
Connectors	Input/Output/Signaling: WAGO 721 Series
Conductor range	Input/Output/Signaling 0.08 ... 2.5 mm ² / 28 ... 12 AWG
Strip length	Input/Output/Signaling 8 ... 9 mm / 0.31 ... 0.35 inch
Mechanical Data	
Dimensions (mm) W x H x L	45 x 90 x 107.5 (incl. female connector), Length from upper-edge of DIN-35 rail
Weight	210 g
General Specifications	
Standards/Approvals	EN 60950-1, EN 61204-3, EN 60335-1, UL 60950-1, UL 508, GL

Input voltage derating	-2.5 % (< 95 VAC)
Input current I _i	0.48 A (240 VAC); 0.82 A (100 VAC)
Mains failure hold-up time	120 ms (230 VAC); 20 ms (100 VAC)
Output current I _o	2 A at 24 VDC (2.2 A up to 40 °C)
Residual ripple	20 mV (peak-to-peak) typ.
Current limitation	1.1 x I _o typ.
Signaling	1 x active signal output 24 VDC, 20 mA
Efficiency	89 % (typ.)
Power loss P _v	< 1 W (230 VAC, no load); 6 W (230 VAC, nominal load)
Power loss P _v (max.)	7 W typ. (100 VAC / 24 VDC, 2 A)
Internal fuse	T 4 A / 250 V
Derating	-3 % / K (> 50 °C)
Test voltage Pri.-Sec./Pri.-GND/Sec.-GND	4.2 kV (DC)
Protection class	II
Overvoltage protection	Varistor (input side); internal protective circuit, < 37 VDC (output side in case of an error)
Connectors	Input/Output/Signaling: WAGO 721 Series
Conductor range	Input/Output/Signaling 0.08 ... 2.5 mm ² / 28 ... 12 AWG
Strip length	Input/Output/Signaling 8 ... 9 mm / 0.31 ... 0.35 inch
Mechanical Data	
Dimensions (mm) W x H x L	45 x 90 x 107.5 (incl. female connector), Length from upper-edge of DIN-35 rail
Weight	210 g
General Specifications	
Standards/Approvals	EN 60950-1, EN 61204-3, EN 60335-1, UL 60950-1, UL 508, GL

Switched-Mode Power Supply, 1-Phase EPSITRON® CLASSIC Power 787 Series



Similar to pictured device

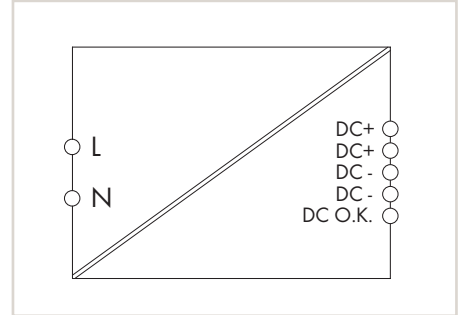


EPSITRON® Switched-Mode Power Supply,
CLASSIC Power, 1-phase,
output: 24 VDC / 4 A, DC OK contact

Item No.	Pack. Unit
787-1616	1



Similar to pictured device



EPSITRON® Switched-Mode Power Supply,
CLASSIC Power, 1-phase,
output: 24 VDC / 3.8 A, NEC Class 2,
DC OK contact

Item No.	Pack. Unit
787-1616/000-1000	1

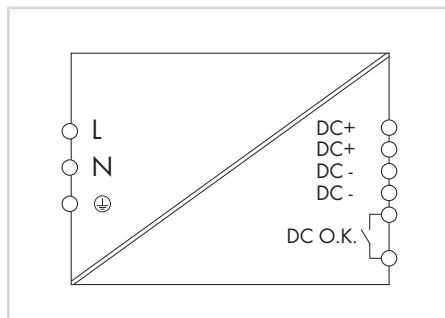
Limited Power Source (LPS) NEC Class 2 acc. to
UL 1310 and UL 60950

Electrical Data

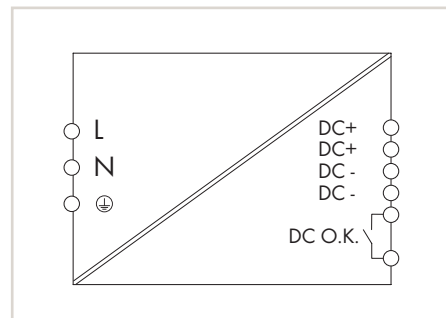
Input voltage derating	-2.5 % (< 95 VAC)	-2.5 % (< 95 VAC)
Input current I _i	0.98 A (240 VAC); 1.82 A (100 VAC)	0.95 A (240 VAC); 1.73 A (100 VAC)
Mains failure hold-up time	80 ms (230 VAC); 15 ms (100 VAC)	80 ms (230 VAC); 15 ms (100 VAC)
Output current I _o	4 A at 24 VDC (4.2 A up to 40 °C)	3.8 A at 24 VDC
Residual ripple	20 mV (peak-to-peak) typ.	20 mV (peak-to-peak) typ.
Current limitation	1.1 x I _o typ.	3.8 A (3.2 A at U _o > 25 VDC), LPS acc. to NEC Class 2
Signaling	1 x active signal output 24 VDC, 20 mA	1 x active signal output 24 VDC, 20 mA
Efficiency	89 % (typ.)	87 % typ.
Power loss P _v	< 1 W (230 VAC, no load); 12.4 W (230 VAC, nominal load)	< 2.8 W (230 VAC, no load); 14 W (230 VAC, nominal load)
Power loss P _v (max.)	15 W typ. (100 VAC / 24 VDC, 4 A)	< 20 W typ. (100 VAC / 91 W)
Internal fuse	T 4 A / 250 V	T 4 A / 250 V
Derating	-3 % / K (> 50 °C)	-3 % / K (> 50 °C)
Test voltage Pri.-Sec./Pri.-GND/Sec.-GND	4.2 kV (DC)	4.2 kV (DC)
Protection class	II	II
Overvoltage protection	Varistor (input side); internal protective circuit, < 40 VDC (output side in case of an error)	Varistor (input side); internal protective circuit, < 40 VDC (output side in case of an error)
Connectors	Input/Output/Signaling: WAGO 721 Series	Input/Output/Signaling: WAGO 721 Series
Conductor range	Input/Output/Signaling 0.08 ... 2.5 mm ² / 28 ... 12 AWG	Input/Output/Signaling 0.08 ... 2.5 mm ² / 28 ... 12 AWG
Strip length	Input/Output/Signaling 8 ... 9 mm / 0.31 ... 0.35 inch	Input/Output/Signaling 8 ... 9 mm / 0.31 ... 0.35 inch
Mechanical Data		
Dimensions (mm) W x H x L	52 x 90 x 119 (incl. female connector), Length from upper-edge of DIN-35 rail	52 x 90 x 119 (incl. female connector), Length from upper-edge of DIN-35 rail
Weight	384 g	384 g
General Specifications		
Standards/Approvals	EN 60950-1, EN 61204-3, EN 60335-1, UL 60950-1, UL 508, GL	EN 60950-1, EN 61204-3, EN 60335-1, UL 60950-1, UL 508, UL 1310, GL



Similar to pictured device



Similar to pictured device



EPSITRON® Switched-Mode Power Supply,
CLASSIC Power, 1-phase,
output: 24 VDC / 5 A, TopBoost, DC OK contact

	Item No.	Pack. Unit
	787-1622	1

Integrated TopBoost, enabling secondary-side protection via wire breakers

EPSITRON® Switched-Mode Power Supply,
CLASSIC Power, 1-phase,
output: 24 VDC / 10 A, TopBoost, DC OK contact

	Item No.	Pack. Unit
	787-1632	1

Integrated TopBoost, enabling secondary-side protection via wire breakers,
input voltage 90 ... 372 VDC possible at operating temperatures of 0 ... +70 °C!

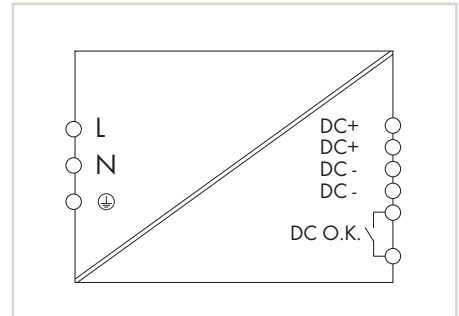
Electrical Data

Input voltage derating	-2.5 % (< 97 VAC)	-2.5 % (< 100 VAC)
Input current I_i	1.24 A (230 VAC); 2.3 A (100 VAC)	1.25 A (230 VAC); 2.74 A (100 VAC)
Mains failure hold-up time	80 ms (230 VAC); 10 ms (100 VAC)	17 ms (230 VAC); 15 ms (100 VAC)
Output current I_o	5 A at 24 VDC	10 A at 24 VDC
Residual ripple	30 mV (peak-to-peak) typ.	50 mV (peak-to-peak) typ.
Current limitation	$1.1 \times I_o$ typ.	$1.1 \times I_o$ typ.
Signaling	DC OK contact; (Make contact, max. 30 VAC/DC, 1 A)	DC OK contact; (Make contact, max. 30 VAC/DC, 1 A)
Efficiency	89 % (typ.)	91 % (typ.)
Power loss P_V	1.2 W (230 VAC, no load); 14.6 W (230 VAC, nominal load)	6.6 W (230 VAC, no load); 24.4 W (230 VAC, nominal load)
Power loss P_V (max.)	19.4 W typ. (100 VAC / 24 VDC, 5 A)	31.3 W typ. (100 VAC / 24 VDC, 10 A)
Internal fuse	T 4 A / 250 V	T 6.3 A / 250 V
Derating	-5 % / K (> 60 °C, 196 ... 264 VAC); -2.5 % / K (> 50 °C, 85 ... 195 VAC)	-5 % / K (> 60 °C, 196 ... 264 VAC); -2.5 % / K (> 50 °C, 85 ... 195 VAC)
Test voltage Pri.-Sec./Pri.-GND/Sec.-GND	4.2 kV DC / 2.2 kV DC / 0.7 kV DC	4.2 kV DC / 2.2 kV DC / 0.7 kV DC
Protection class	I	I
Overvoltage protection	Varistor (input side); internal protective circuit, < 41 VDC (output side in case of an error)	Varistor (input side); internal protective circuit, < 40 VDC (output side in case of an error)
Connectors	Input/Output/Signaling: WAGO 721 Series	Input/Output/Signaling: WAGO 721 Series
Conductor range	Input/Output/Signaling 0.08 ... 2.5 mm ² / 28 ... 12 AWG	Input/Output/Signaling 0.08 ... 2.5 mm ² / 28 ... 12 AWG
Strip length	Input/Output/Signaling 8 ... 9 mm / 0.31 ... 0.35 inch	Input/Output/Signaling 8 ... 9 mm / 0.31 ... 0.35 inch
Mechanical Data		
Dimensions (mm) W x H x L	42 x 127 x 137.5 (incl. female connector), Length from upper-edge of DIN-35 rail	55 x 127 x 172 (incl. female connector), Length from upper-edge of DIN-35 rail
Weight	590 g	930 g
General Specifications		
Standards/Approvals	EN 60950-1, EN 61204-3, EN 60335-1, UL 60950-1, UL 508, GL	EN 60950-1, EN 61204-3, UL 60950-1, UL 508, GL

Switched-Mode Power Supply, 1-Phase EPSITRON® CLASSIC Power 787 Series



Similar to pictured device



EPSITRON® Switched-Mode Power Supply,
CLASSIC Power, 1-phase,
output: 24 VDC / 20 A, TopBoost,
DC OK contact

Item No.	Pack. Unit
787-1634	1

Integrated TopBoost, enabling secondary-side protection via wire breakers

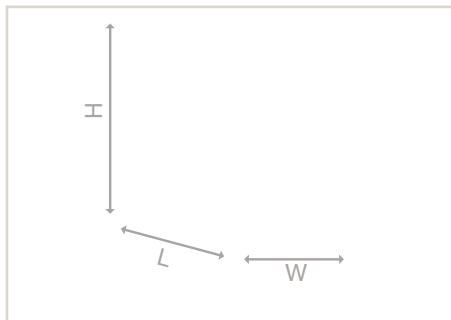
Electrical Data

Input voltage derating	-1.8 % (< 105 VAC)
Input current I_i	2.23 A (230 VAC); 5.56 A (100 VAC)
Mains failure hold-up time	20 ms (230 VAC); 8 ms (100 VAC)
Output current I_o	20 A at 24 VDC
Residual ripple	70 mV (peak-to-peak) typ.
Current limitation	1.1 x I_o typ.
Signaling	DC OK contact; (Make contact, max. 30 VAC/DC, 1 A)
Efficiency	92 % (typ.)
Power loss P_V	7.2 W (230 VAC, no load); 42.4 W (230 VAC, nominal load)
Power loss P_V (max.)	68.3 W typ. (100 VAC / 24 VDC, 20 A)
Internal fuse	T 10 A / 250 V
Derating	-5 % / K (> 60 °C, 196 ... 264 VAC); -2.5 % / K (> 50 °C, 85 ... 195 VAC)
Test voltage Pri.-Sec./Pri.-GND/Sec.-GND	4.2 kV DC / 2.2 kV DC / 0.7 kV DC
Protection class	I
Overvoltage protection	Varistor (input side); internal protective circuit, < 40 VDC (output side in case of an error)
Connectors	Input/Signaling: WAGO 721 Series Output: WAGO 831 Series
Conductor range	Input/Signaling: 0.08 ... 2.5 mm ² / 28 ... 12 AWG Output: 0.5 ... 10 mm ² / 20 ... 8 AWG
Strip length	Input/Signaling: 8 ... 9 mm / 0.31 ... 0.35 inch Output: 13 ... 15 mm / 0.51 ... 0.59 inch
Mechanical Data	
Dimensions (mm) W x H x L	95 x 127 x 170 (incl. female connector), Length from upper-edge of DIN-35 rail
Weight	1600 g
General Specifications	
Standards/Approvals	EN 60950-1, EN 61204-3, UL 60950-1, UL 508, GL

Switched-Mode Power Supply, 1-Phase

EPSITRON® CLASSIC Power

787 Series



Features:

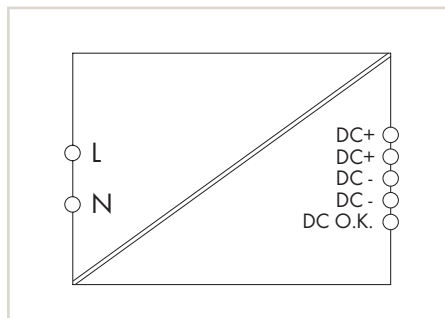
- Switched-Mode Power Supply unit
- Natural convection cooling when horizontally mounted
- Enclosed for use in switchgear cabinets
- Bounce-free switching signal (DC OK)
- Suitable for both parallel and series operation
- Electrically isolated output voltage (SELV) acc. to EN 60950-1/UL 60950-1; PELV acc. to EN 60204
- GL approval: also suitable for EMC 1 only in conjunction with 787-980 filter module (787-1633)

Technical Data

Input	
Nominal input voltage $U_{i, \text{nom}}$	100 ... 240 VAC
Input voltage range	85 ... 264 VAC; 120 ... 372 VDC
Frequency	44 ... 66 Hz; 0 Hz
Inrush current	< 30 A
Output	
Nominal output voltage $U_{o, \text{nom}}$	48 VDC, (SELV)
Output voltage range	40 ... 56 VDC adjustable
Factory preset	48 VDC
Adjustment accuracy	< 1 %
Current limitation	1.1 x I_o typ.
Overload behavior	Constant current
Operational indication	LED green (U_o)
Environmental Requirements	
Ambient operating temperature	-25 ... +70 °C; Device start at -40 °C type-tested
Storage temperature	-25 ... +85 °C
Relative humidity	5 % ... 96 % (no condensation permissible)
Degree of pollution	2 (acc. to EN 50178)
Climatic category	3K3 (acc. to EN 60721)
Safety and Protection	
Degree of protection	IP20 per EN 60529
Overvoltage category	II
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	
Type of mounting	DIN-rail mounting (EN 60715)



Similar to pictured device

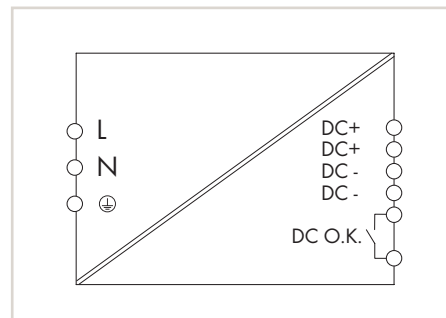


EPSITRON® Switched-Mode Power Supply,
CLASSIC Power, 1-phase,
output: 48 VDC / 2 A, DC OK contact

	Item No.	Pack. Unit
	787-1623	1



Similar to pictured device



EPSITRON® Switched-Mode Power Supply,
CLASSIC Power, 1-phase,
output: 48 VDC / 5 A, TopBoost, DC OK contact

	Item No.	Pack. Unit
	787-1633	1

Integrated TopBoost, enabling secondary-side protection via wire breakers,
Input voltage 100 ... 372 VDC possible!

Electrical Data

Input voltage derating	-2.5 % (< 95 VAC)	-2.5 % % (< 100 VAC)
Input current I _i	0.97 A (240 VAC); 1.84 A (100 VAC)	1.25 A (230 VAC); 2.74 A (100 VAC)
Discharge current		< 1 mA
Mains failure hold-up time	80 ms (230 VAC); 15 ms (100 VAC)	21 ms (230 VAC); 21 ms (100 VAC)
Output current I _o	2 A at 48 VDC (2.1 A up to 40 °C)	5 A at 48 VDC
Residual ripple	20 mV (peak-to-peak) typ.	30 mV (peak-to-peak) typ.
Signaling	1 x active signal output 48 VDC, 10 mA	DC OK contact; (Make contact, max. 30 VAC/DC, 1 A)
Efficiency	86 % (typ.)	92 % (typ.)
Power loss P _v	< 1 W (230 VAC, no load); 16.2 W (230 VAC, nominal load)	7 W (230 VAC, no load); 40.8 W (230 VAC, nominal load)
Power loss P _v (max.)	19.8 W typ. (100 VAC / 48 VDC, 2 A)	26.5 W typ. (100 VAC / 48 VDC, 5 A)
Internal fuse	T 4 A / 250 V	T 6.3 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.	Circuit breakers 10 A, 16 A, B or C characteristic;; an external DC fuse is required for the DC input voltage.
Derating	-3 % / K (> 50 °C)	-5 % / K (>60 °C, 196 ... 264 VAC) -2.5 % / K (>50 °C, 85 ... 195 VAC)
Test voltage Pri.-Sec./Pri.-GND/Sec.-GND	4.2 kV (DC)	4.2 kV DC / 2.2 kV DC / 0.7 kV DC
Protection class	II	I
Connectors	Input/Output/Signaling: WAGO 721 Series	Input/Output/Signaling: WAGO 721 Series
Conductor range	Input/Output/Signaling 0.08 ... 2.5 mm ² / 28 ... 12 AWG	Input/Output/Signaling 0.08 ... 2.5 mm ² / 28 ... 12 AWG
Strip length	Input/Output/Signaling 8 ... 9 mm / 0.31 ... 0.35 inch	Input/Output/Signaling 8 ... 9 mm / 0.31 ... 0.35 inch
Mechanical Data		
Dimensions (mm) W x H x L	52 x 90 x 119, Length from upper-edge of DIN-35 rail	55 x 127 x 172, Length from upper-edge of DIN-35 rail
Weight	385 g	930 g
General Specifications		
Standards/Approvals	EN 60950-1, EN 61204-3, EN 60335-1, UL 60950-1, UL 508, GL	EN 60950-1, EN 61204-3, UL 60950-1, UL 508, GL

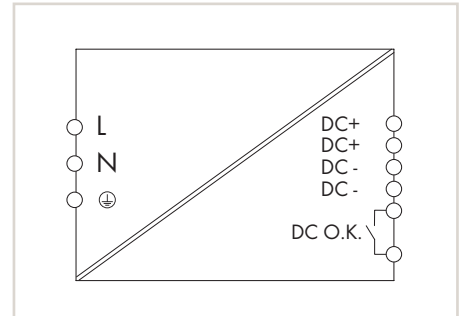
Switched-Mode Power Supply, 1-Phase

EPSITRON® CLASSIC Power

787 Series



Similar to pictured device



EPSITRON® Switched-Mode Power Supply,
CLASSIC Power, 1-phase,
output: 48 VDC / 10 A, TopBoost, DC OK contact

Item No.	Pack. Unit
787-1635	1

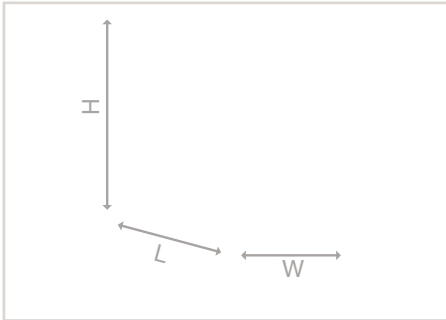
Integrated TopBoost, enabling secondary-side protection via wire breakers

Electrical Data	
Input voltage derating	-2.5 % (< 100 VAC)
Input current I_i	2.23 A (230 VAC); 5.56 A (100 VAC)
Discharge current	< 1 mA
Mains failure hold-up time	20 ms (230 VAC); 20 ms (100 VAC)
Output current I_o	10 A at 48 VDC
Residual ripple	80 mV (peak-to-peak) typ.
Signaling	DC OK contact; (Make contact, max. 30 VAC/DC, 1 A)
Efficiency	93 % (typ.)
Power loss P_V	11.7 W (230 VAC, no load); 36.3 W (230 VAC, nominal load)
Power loss P_V (max.)	64.9 W typ. (100 VAC / 48 VDC, 10 A)
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.
Derating	-5 % / K (>60 °C, 196 ... 264 VAC) -2.5 % / K (>50 °C, 85 ... 195 VAC)
Test voltage Pri.-Sec./Pri.-GND/Sec.-GND	4.2 kV DC / 2.2 kV DC / 0.7 kV DC
Protection class	I
Connectors	Input/Signaling: WAGO 721 Series Output: WAGO 831 Series
Conductor range	Input/Signaling: 0.08 ... 2.5 mm ² / 28 ... 12 AWG Output: 0.5 ... 10 mm ² / 20 ... 8 AWG
Strip length	Input/Signaling: 8 ... 9 mm / 0.31 ... 0.35 inch Output: 13 ... 15 mm / 0.51 ... 0.59 inch
Mechanical Data	
Dimensions (mm) W x H x L	95 x 127 x 170, Length from upper-edge of DIN-35 rail
Weight	1600 g
General Specifications	
Standards/Approvals	EN 60950-1, EN 61204-3, UL 60950-1, UL 508, GL

Switched-Mode Power Supply, 1-/2-Phase

EPSITRON® CLASSIC Power

787 Series

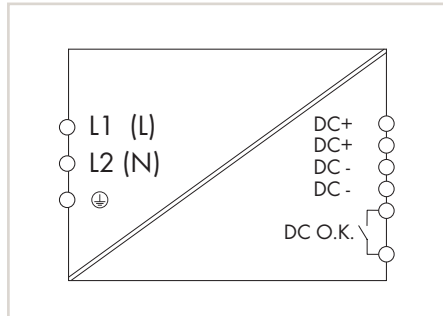


Features:

- Switched-mode power supply with TopBoost, enabling secondary-side protection via circuit breakers
- Natural convection cooling when horizontally mounted
- Enclosed for use in switchgear cabinets
- DC OK contact
- Suitable for both parallel and series operation
- Electrically isolated output voltage (SELV) acc. to EN 60950-1/UL 60950-1; PELV acc. to EN 60204

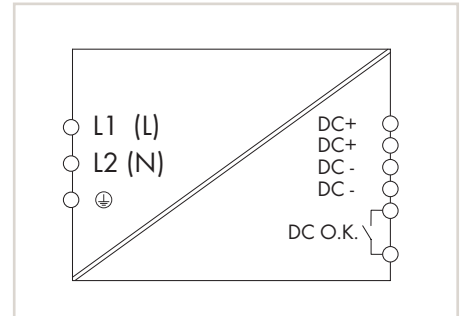
Technical Data

Input	
Nominal input voltage $U_{i, \text{nom}}$	1 x (2 x) 200 ... 500 VAC
Input voltage range	180 ... 550 VAC; 254 ... 780 VDC
Frequency	44 ... 66 Hz; 0 Hz
Inrush current	< 30 A, NTC
Output	
Nominal output voltage $U_{o, \text{nom}}$	24 VDC (SELV)
Output voltage range	23 ... 28.5 VDC adjustable
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	LED green (U_o)
Signaling	DC OK contact, make contact (max. 30 V / 1 A)
Fuse Protection	
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
Environmental Requirements	
Ambient operating temperature	-25 ... +70 °C Device start at -40 °C type-tested
Storage temperature	-25 ... +85 °C
Relative humidity	5 % ... 96 % (no condensation permissible)
Derating	-2.5 % / K (> 55 °C)
Safety and Protection	
Test voltage Pri.-Sec./Pri.-GND/Sec.-GND	4.2 kV DC / 2.2 kV DC / 0.7 kV DC
Protection class	I
Degree of protection	IP20 per 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	
Connectors	Input/Output/Signaling WAGO 721 Series
Conductor range	Input/Output/Signaling 0.08 ... 2.5 mm ² / 28 ... 12 AWG
Strip length	Input/Output/Signaling 8 ... 9 mm / 0.31 ... 0.35 inch
Type of mounting	DIN-rail mounting (EN 60715)



EPSITRON® Switched-Mode Power Supply,
CLASSIC Power, 2-phase,
output: 24 VDC / 5 A, TopBoost,
DC OK contact

Item No.	Pack. Unit
787-1628	1



EPSITRON® Switched-Mode Power Supply,
CLASSIC Power, 2-phase,
output: 24 VDC / 10 A, TopBoost,
DC OK contact

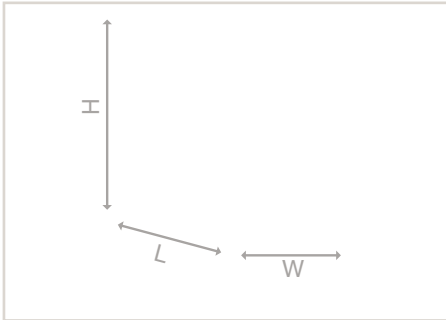
Item No.	Pack. Unit
787-1638	1

5

Electrical Data

Input voltage derating	-0.5 % (< 200 VAC); -0.4 % (< 280 VDC)	-0.5 % (< 200 VAC), -0.4 % (< 280 VDC)
Input current I_i	1.25 A (200 VAC); 0.67 A (500 VAC)	1.975 A (230 VAC); 1.36 A (400 VAC)
Mains failure hold-up time	126 ms (500 VAC); 15 ms (200 VAC)	78 ms (400 VAC); 20 ms (200 VAC)
Output current I_o	5 A at 24 VDC	10 A at 24 VDC
Efficiency	89 % (typ.)	89 % typ. (230 VAC); 92.5 % typ. (400 VAC)
Power loss P_v	0.94 W (no load); 16.36 W (230 VAC, nominal load) 14.55 W (400 VAC, nominal load)	1.3 W (no load) 27.8 W (230 VAC, nominal load) 20.3 W (400 VAC, nominal load)
Power loss P_v (max.)	18.2 W (200 VAC / 24 VDC, 5 A)	27.8 W (230 VAC / 24 VDC, 10 A)
Internal fuse	T 3.15 A / 500 V	T 6.3 A / 500 V
Mechanical Data		
Dimensions (mm) W x H x L	42 x 127 x 137, Length from upper-edge of DIN-35 rail	55 x 127 x 146.5, Length from upper-edge of DIN-35 rail
Weight	600 g	830 g
General Specifications		
Standards/Approvals	EN 60950-1, EN 61204-3, UL 60950-1, UL 508, GL * (* pending)	EN 60950-1, EN 61204-3, UL 60950-1*, UL 508*, GL * (* pending)

Switched-Mode Power Supply, 3-Phase EPSITRON® CLASSIC Power 787 Series

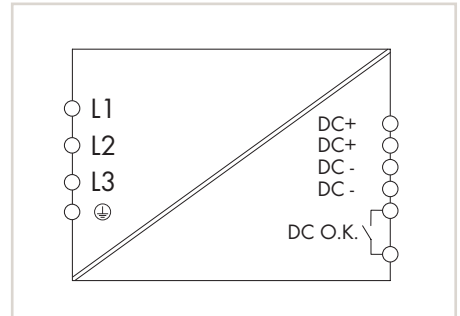
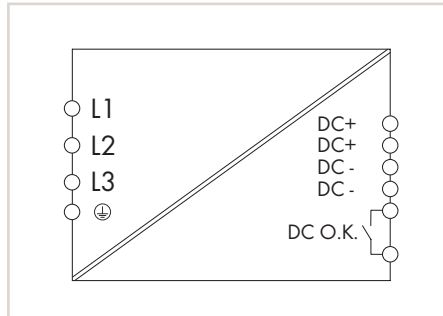


Features:

- Switched-mode power supply with TopBoost, enabling secondary-side protection via circuit breakers
- Natural convection cooling when horizontally mounted
- Enclosed for use in switchgear cabinets
- DC OK contact
- Suitable for both parallel and series operation
- Electrically isolated output voltage (SELV) acc. to EN 60950-1/UL 60950-1; PELV acc. to EN 60204

Technical Data

Input	
Nominal input voltage $U_{i, \text{nom}}$	3 x (2 x) 400 ... 500 VAC
Input voltage range	320 ... 575 VAC; 450 ... 800 VDC
Frequency	47 ... 63 Hz, 0 Hz
Inrush current	< 30 A, NTC
Output	
Nominal output voltage $U_{o, \text{nom}}$	24 VDC (SELV)
Output voltage range	23 ... 28.5 VDC adjustable
Factory preset	24 VDC
Adjustment accuracy	< 1 %
Current limitation	1.1 x I_o typ.
Overload behavior	Constant current
Operational indication	LED green (U_o)
Signaling	DC OK contact, Make contact (max. 30 V / 1 A)
Fuse Protection	
Internal fuse	None
External fuse	3 x circuit breakers 10 A, 16 A, characteristic B or C; or motor circuit breakers; an external DC fuse is required for the DC input voltage
General Specifications	
Standards/Approvals	EN 60950-1, EN 61204-3, UL 60950-1, UL 508, GL * (* pending)
Environmental Requirements	
Ambient operating temperature	-25 ... +70 °C Device start at -40 °C type-tested
Storage temperature	-25 ... +85 °C
Relative humidity	5 % ... 96 % (no condensation permissible)
Derating	-2.5 % / K (> 55 °C)
Safety and Protection	
Test voltage Pri.-Sec./Pri.-GND/Sec.-GND	4.2 kV DC / 2.2 kV DC / 0.7 kV DC
Protection class	I
Degree of protection	IP20 per EN 60529
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	
Type of mounting	DIN-rail mounting (EN 60715)



EPSITRON® Switched-Mode Power Supply,
CLASSIC Power, 3-phase,
output: 24 VDC / 10 A, TopBoost,
DC OK contact

Item No.	Pack. Unit
787-1640	1

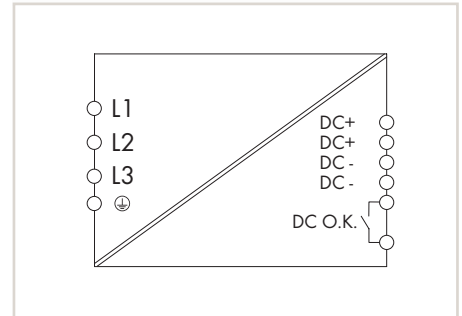
EPSITRON® Switched-Mode Power Supply,
CLASSIC Power, 3-phase,
output: 24 VDC / 20 A, TopBoost,
DC OK contact

Item No.	Pack. Unit
787-1642	1

Electrical Data

Input current I_i	3 x 0.73 A (400 VAC); 3 x 0.66 A (500 VAC)	3 x 1.21 A (400 VAC); 3 x 1.03 A (500 VAC)
Mains failure hold-up time	50 ms (500 VAC); 21 ms (400 VAC)	25 ms (500 VAC); 15 ms (400 VAC)
Output current I_o	10 A at 24 VDC	20 A at 24 VDC
Residual ripple	50 mV (peak-to-peak) typ.	15 mV (peak-to-peak) typ.
Efficiency	90 % (typ.)	92 % (typ.)
Power loss P_v	2.1 W (no load); 27.9 W (400 VAC, nominal load)	5.8 W (no load); 42.8 W (400 VAC, nominal load)
Power loss P_v (max.)	28.3 W (500 VAC / 24 VDC, 10 A)	47.6 W (500 VAC / 24 VDC, 20 A)
Overvoltage protection	Varistor (input side); internal protective circuit, < 41 VDC (output side in case of an error)	Varistor (input side); internal protective circuit, < 40 VDC (output side in case of an error)
Connectors	Input/Output/Signaling WAGO 721 Series	Input/Signaling: WAGO 721 Series Output: WAGO 831 Series
Conductor range	Input/Output/Signaling 0.08 ... 2.5 mm ² / 28 ... 12 AWG	Input/Signaling: 0.08 ... 2.5 mm ² / 28 ... 12 AWG Output: 0.5 ... 10 mm ² / 20 ... 8 AWG
Strip length	Input/Output/Signaling 8 ... 9 mm / 0.31 ... 0.35 inch	Input/Signaling: 8 ... 9 mm / 0.31 ... 0.35 inch Output: 13 ... 15 mm / 0.51 ... 0.59 inch
Mechanical Data		
Dimensions (mm) W x H x L	55 x 127 x 171, Length from upper-edge of DIN-35 rail	80 x 127 x 180, Length from upper-edge of DIN-35 rail
Weight	1000 g	1500 g

Switched-Mode Power Supply, 3-Phase EPSITRON® CLASSIC Power 787 Series



EPSITRON® Switched-Mode Power Supply,
CLASSIC Power, 3-phase,
output: 24 VDC / 40 A, TopBoost,
DC OK contact

Item No.	Pack. Unit
787-1644	1

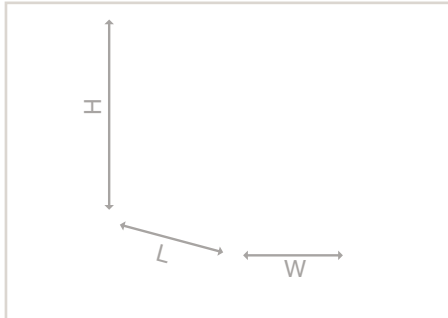
Electrical Data

Input current I_i	3 x 2.15 A (400 VAC); 3 x 1.82 A (500 VAC)
Mains failure hold-up time	25 ms (500 VAC); 15 ms (400 VAC)
Output current I_o	40 A at 24 VDC
Residual ripple	30 mV (peak-to-peak) typ.
Efficiency	92 % (typ.)
Power loss P_V	4.2 W (no load); 83.9 W (400 VAC, nominal load)
Power loss P_V (max.)	83.9 W (500 VAC / 24 VDC, 40 A)
Overvoltage protection	Varistor (input side); internal protective circuit, < 40 VDC (output side in case of an error)
Connectors	Input/Signaling: WAGO 721 Series Output: WAGO 831 Series
Conductor range	Input/Signaling: 0.08 ... 2.5 mm ² / 28 ... 12 AWG Output: 0.5 ... 10 mm ² / 20 ... 8 AWG
Strip length	Input/Signaling: 8 ... 9 mm / 0.31 ... 0.35 inch Output: 13 ... 15 mm / 0.51 ... 0.59 inch
Mechanical Data	
Dimensions (mm) W x H x L	126 x 127 x 198, Length from upper-edge of DIN-35 rail
Weight	2800 g

Switched-Mode Power Supply, 1-Phase

EPSITRON® ECO Power

787 Series

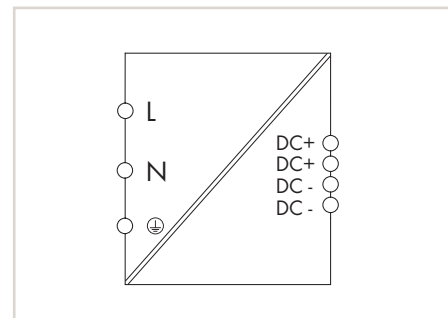
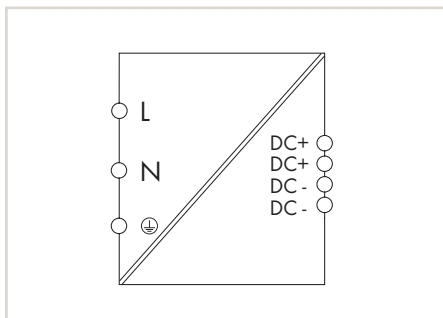


Features:

- Switched-Mode Power Supply unit
- Natural convection cooling when horizontally mounted
- Enclosed for use in switchgear cabinets
- Suitable for both parallel and series operation
- Electrically isolated output voltage (SELV) acc. to EN 60950-1/UL 60950-1; PELV acc. to EN 60204

Technical Data

Input	
Nominal input voltage $U_{i, \text{nom}}$	110 ... 240 VAC
Frequency	47 ... 63 Hz
Output	
Nominal output voltage $U_{o, \text{nom}}$	24 VDC (SELV)
Output voltage range	22 ... 28 VDC adjustable
Factory preset	24 VDC
Adjustment accuracy	1 %
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 VDC OK) LED red (overload)
Environmental Requirements	
Relative humidity	95 % (no condensation permissible)
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	I
Degree of protection	IP20 per EN 60529
Overvoltage category	II
Overvoltage protection	Via varistor at primary circuit
Short-circuit-protection	Yes
No-load proof	Yes
Parallel operation	Yes
Series connection	Yes



EPSITRON® Switched-Mode Power Supply, ECO Power, 1-phase, output: 24 VDC / 2.5 A

Item No.	Pack. Unit
787-712	1

EPSITRON® Switched-Mode Power Supply, ECO Power, 1-phase, output: 24 VDC / 5 A, active power factor correction

Item No.	Pack. Unit
787-722	1

Electrical Data

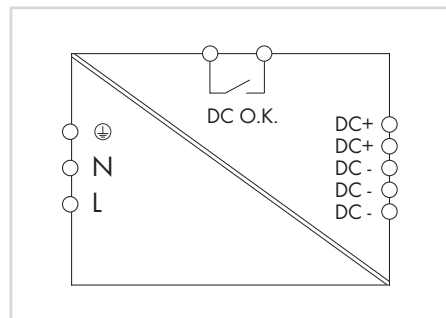
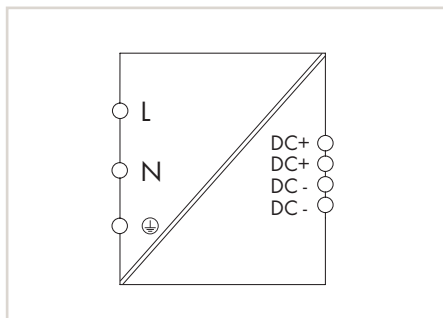
Input voltage range	85 ... 264 VAC; 130 ... 373 VDC
Input current I_i	0.7 A at 230 VAC; 1.2 A at 115 A AC
Discharge current	< 1 mA
Inrush current	< 30 A at 230 VAC; < 15 A at 115 VAC
Mains failure hold-up time	> 20 ms at 230 VAC
Power factor	> 0.5 at 230 VAC
Output current I_o	2.5 A at 24 VDC
Residual ripple	< 100 mV (peak-to-peak)
Efficiency	86 % typ. at 230 VAC
Power loss P_V	8.3 W (at 230 VAC and 2.5 ADC)
Power loss P_V (max.)	11.5 W (at 110 VAC and 2.75 ADC)
Internal fuse	F 2.5 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.
Ambient operating temperature	-10 ... +70 °C
Storage temperature	-25 ... +85 °C
Derating	-3.3 % / K (>50 °C at 230 VAC)
Feedback voltage	28 VDC
MTBF	480,000 h (acc. IEC 61709)
Connectors	CAGE CLAMP® (WAGO 745 Series)
Conductor range	0.08 ... 4 mm ² / 28 ... 12 AWG (12 AWG: THHN, THWN)
Strip length	8 ... 9 mm / 0.31 ... 0.35 inch
Type of mounting	DIN-rail mounting (EN 60715)
Mechanical Data	
Dimensions (mm) W x H x L	50 x 92 x 136, Length from upper-edge of DIN-35 rail
Weight	596 g
General Specifications:	
Standards/Approvals	EN 60950, EN 61000-6-2, EN 61000-6-3, UL 60950, UL 508, ANSI/ISA 12.12.01 (Class I Division 2), ATEX, IEC Ex

Input voltage range	85 ... 264 VAC; 130 ... 373 VDC
Input current I_i	1.0 A at 230 VAC. 2.0 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	> 20 ms at 230 VAC
Power factor	> 0.94 at 230 VAC; > 0.98 at 115 VAC
Output current I_o	5 A at 24 VDC
Residual ripple	< 100 mV (peak-to-peak)
Efficiency	86 % typ. at 230 VAC
Power loss P_V	19.5 W (at 230 VAC and 5 ADC)
Power loss P_V (max.)	23.5 W (at 110 VAC and 5.5 ADC)
Internal fuse	F 3.15 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.
Ambient operating temperature	-10 ... +60 °C
Storage temperature	-25 ... +85 °C
Derating	-5.33 % / K (>45 °C at 230 VAC)
Feedback voltage	28 VDC
MTBF	480,000 h (acc. IEC 61709)
Connectors	CAGE CLAMP® (WAGO 745 Series)
Conductor range	0.08 ... 4 mm ² / 28 ... 12 AWG (12 AWG: THHN, THWN)
Strip length	8 ... 9 mm / 0.31 ... 0.35 inch
Type of mounting	DIN-rail mounting (EN 60715)
Mechanical Data	
Dimensions (mm) W x H x L	75 x 92 x 136, Length from upper-edge of DIN-35 rail
Weight	850 g
General Specifications:	
Standards/Approvals	EN 60950, EN 61000-6-2, EN 61000-6-3, UL 60950, UL 508, ANSI/ISA 12.12.01 (Class I Division 2), ATEX, IEC Ex

Switched-Mode Power Supply, 1-Phase

EPSITRON® ECO Power

787 Series



EPSITRON® Switched-Mode Power Supply, ECO Power, 1-phase, output: 24 VDC / 10 A, active power factor correction

Item No.	Pack. Unit
787-732	1

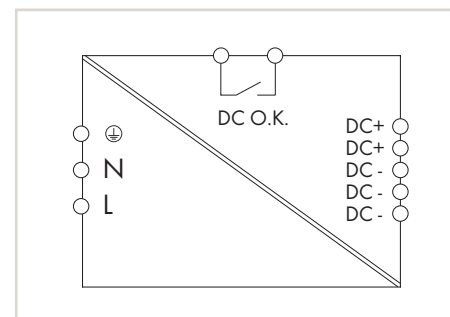
EPSITRON® Switched-Mode Power Supply, ECO Power, 1-phase, output: 24 VDC / 20 A, active power factor correction

Item No.	Pack. Unit
787-734	1

Electrical Data

Input voltage range	85 ... 264 VAC; 130 ... 373 VDC	85 ... 264 VAC; 130 ... 373 VDC
Input current I _i	1.5 A typ. at 230 VAC; 3.0 A at 115 VAC	3 A typ. at 230 VAC; 6.3 A at 115 VAC
Discharge current	< 3.5 mA	< 2 mA
Inrush current	< 30 A at 230 VAC; < 25 A at 115 VAC	< 30 A at 230 VAC; < 25 A at 115 VAC
Mains failure hold-up time	> 20 ms at 230 VAC	> 20 ms at 230 VAC
Power factor	> 0.94 at 230 VAC > 0.98 at 115 VAC	> 0.94 at 230 VAC > 0.98 at 115 VAC
Output current I _o	10 A at 24 VDC	20 A at 24 VDC
Residual ripple	< 100 mV (peak-to-peak)	< 100 mV (peak-to-peak)
Signaling	-	DC OK contact; Make contact (max. 31.2 V / 20 mA)
Efficiency	86 % typ. at 230 VAC	90 % (typ.)
Power loss P _v	37.5 W (at 230 VAC and 10 ADC)	65 W (230 VAC, nominal load)
Power loss P _v (max.)	53 W (at 110 VAC and 11 ADC)	107 W typ. (110 VAC / 24 VDC, 23 A)
Internal fuse	F 5 A / 250 V	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.	Circuit breakers 10 A, 16 A, B or C characteristic;; an external DC fuse is required for the DC input voltage.
Ambient operating temperature	-10 ... +70 °C	-25 ... +70 °C
Storage temperature	-25 ... +85 °C	-25 ... +85 °C
Derating	-2.33 % / K (>55 °C at 230 VAC)	see instruction manual
Feedback voltage	28 VDC	29 VDC
MTBF	480,000 h (acc. IEC 61709)	> 250,000 h (per IEC 61709)
Connectors	CAGE CLAMP® (WAGO 745 Series)	Input/Signaling: WAGO 2706 Series Output: WAGO 2716 Series
Conductor range	0.08 ... 4 mm ² / 28 ... 12 AWG (12 AWG: THHN, THWN)	Input/Signaling: 0.5 ... 6 mm ² / 20 ... 10 AWG Output: 1.5 ... 16 mm ² / 16 ... 6 AWG
Strip length	8 ... 9 mm / 0.31 ... 0.35 inch	Input/Signaling: 11 ... 12 mm / 0.43 ... 0.47 inch Output: 12 ... 13 mm / 0.47 ... 0.51 inch
Type of mounting	DIN-rail mounting (EN 60715)	DIN-rail-mount (DIN EN 50022)
Mechanical Data		
Dimensions (mm) W x H x L	110 x 92 x 136 (incl. female connector), Length from upper-edge of DIN-35 rail	115 x 136 x 144, Length from upper-edge of DIN-35 rail
Weight	1200 g	2400 g
General Specifications		
Standards/Approvals	EN 60950, EN 61000-6-2, EN 61000-6-3, UL 60950, UL 508, ANSI/ISA 12.12.01 (Class I Division 2), ATEX, IEC Ex	EN 60950, EN 61000-6-2, EN 61000-6-3, UL 60950, UL 508

5



EPSITRON® Switched-Mode Power Supply, ECO Power, 1-phase, output: 24 VDC / 40 A, active power factor correction

Item No.	Pack. Unit
787-736	1

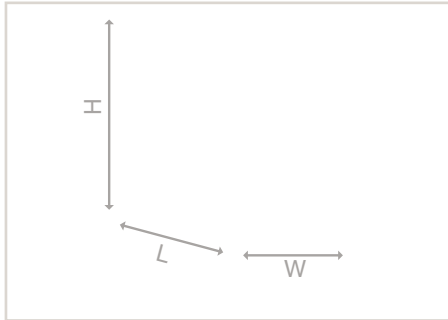
Electrical Data

Input voltage range	90 ... 264 VAC; 130 ... 373 VDC
Input current I_i	< 6 A at 230 VAC; < 12 A at 115 VAC
Discharge current	< 2 mA
Inrush current	< 30 A at 230 VAC; < 25 A at 115 VAC
Mains failure hold-up time	> 17 ms at 230 VAC
Power factor	> 0.94 at 230 VAC > 0.98 at 115 VAC
Output current I_o	40 A at 24 VDC
Residual ripple	< 100 mV (peak-to-peak)
Signaling	DC OK contact; Make contact (max. 31.2 V / 20 mA)
Efficiency	90 % (typ.)
Power loss P_v	107 W at 230 VAC / nominal load
Internal fuse	T 20 A / 250 V
External fuse	Circuit breakers 13 A, 16 A, 20 A; B or C characteristic;; an external DC fuse is re- quired for the DC input voltage.
Ambient operating temperature	-25 ... +70 °C
Storage temperature	-40 ... +85 °C
Derating	-2.66 % / K (> 55 °C); -2 % / V ($U_i < 100$ VAC)
Feedback voltage	29 VDC
MTBF	> 250,000 h (per IEC 61709)
Connectors	Input/Signaling: WAGO 2706 Series Output: WAGO 2716 Series
Conductor range	Input/Signaling: 0.5 ... 6 mm ² / 20 ... 10 AWG Output: 1.5 ... 16 mm ² / 16 ... 6 AWG
Strip length	Input/Signaling: 11 ... 12 mm / 0.43 ... 0.47 inch Output: 12 ... 13 mm / 0.47 ... 0.51 inch
Type of mounting	DIN-rail-mount (DIN EN 50022)
Mechanical Data	
Dimensions (mm) W x H x L	170 x 136 x 150, Length from upper-edge of DIN- 35 rail
Weight	3500 g
General Specifications	
Standards/Approvals	EN 60950, EN 61000-6-2, EN 61000-6-4, UL 60950, UL 508

Switched-Mode Power Supply, 1-Phase

EPSITRON® ECO Power

787 Series

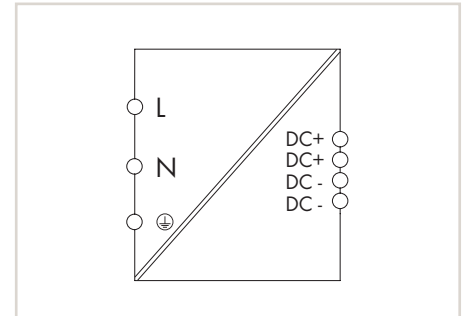
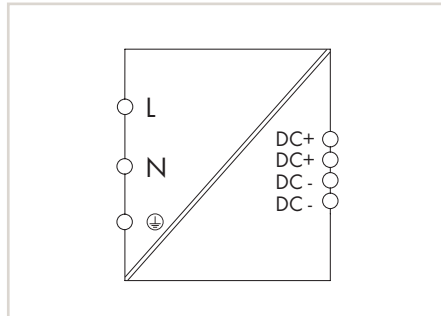


Features:

- Switched-Mode Power Supply unit
- Natural convection cooling when horizontally mounted
- Enclosed for use in switchgear cabinets
- Suitable for both parallel and series operation
- Electrically isolated output voltage (SELV) acc. to EN 60950-1/UL 60950-1 and EN 60335-1; PELV acc. to EN 60204
- DIN-35 rail mountable in different positions
- Direct installation on mounting plate via cable grip

Technical Data

Input	
Nominal input voltage $U_{i, \text{nom}}$	(100) 110 ... 240 VAC
Input voltage range	90 ... 264 VAC; 125 ... 375 VDC
Frequency	47 ... 63 Hz
Discharge current	< 3.5 mA
Inrush current	< 18 A
Mains failure hold-up time	> 10 ms at 230 VAC
Output	
Nominal output voltage $U_{o, \text{nom}}$	24 VDC (SELV)
Output voltage range	22 ... 26 VDC adjustable
Factory preset	24 VDC
Adjustment accuracy	< 1 %
Residual ripple	< 200 mV (peak-to-peak)
Overload behavior	Constant power (in overload range: 1.05 ... 1.4 x I_o), shutdown and automatic restart in the event of a short circuit
Operational indication	LED green (24 VDC OK)
Fuse Protection	
External fuse	Circuit breaker B6, B10; an external DC fuse is required for the DC input voltage.
General Specifications	
Standards/Approvals	EN 60950, EN 61204-3, EN 60335, UL 60950 *, UL 508 *, (*pending)
Environmental Requirements	
Ambient operating temperature	-20 ... +60 °C
Storage temperature	-25 ... +70 °C
Relative humidity	10 ... 95 % (no condensation permissible)
Overvoltage category	II
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	I
Degree of protection	IP20 per EN 60529
Overvoltage protection	Via varistor at primary circuit
Short-circuit-protection	Yes
No-load proof	Yes
Feedback voltage	30 VDC
Parallel operation	Yes
Series connection	Yes
MTBF	> 300,000 h (acc. IEC 61709)
Connection and Type of Mounting	
Connectors	CAGE CLAMP® (WAGO 236 Series)
Conductor range	0.08 ... 2.5 mm ² / 28 ... 12 AWG (12 AWG: THHN, THWN)
Strip length	6 ... 7 mm / 0.24 ... 0.28 inch
Type of mounting	DIN-rail mounting (EN 60715)



EPSITRON® Switched-Mode Power Supply,
ECO Power, 1-phase, output: 24 VDC / 1.25 A

	Item No.	Pack. Unit
	787-1702	1

EPSITRON® Switched-Mode Power Supply,
ECO Power, 1-phase, output: 24 VDC / 2.5 A

	Item No.	Pack. Unit
	787-1712	1

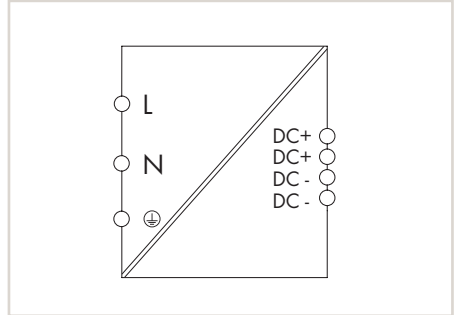
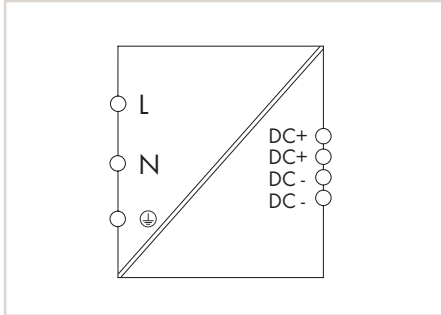
Electrical Data

Input current I_i	0.3 ms typ. at 230 VAC; 0.6 A typ. at 115 VAC	0.6 ms typ. at 230 VAC; 1.2 A typ. at 115 VAC
Output current I_o	1.25 A at 24 VDC and 110 ... 240 VAC 1 A at 24 VDC and 100 ... 240 VAC	2.5 A at 24 VDC and 110 ... 240 VAC 2 A at 24 VDC and 100 ... 240 VAC
Efficiency	> 87 % (at 230 VAC and 1.25 ADC)	> 88 % (at 230 VAC and 2.5 ADC)
Derating	-4 % / K (> 45 °C)	-4 % / K (> 45 °C)
Internal fuse	F 1 A / 250 V	F 2 A / 250 V
Mechanical Data		
Dimensions (mm) W x H x L	30 x 90 x 99, Length from upper-edge of DIN-35 rail	40 x 90 x 99, Length from upper-edge of DIN-35 rail
Weight	250 g	300 g
Installation width (as delivered)	30 mm	40 mm

Switched-Mode Power Supply, 1-Phase

EPSITRON® ECO Power

787 Series



EPSITRON® Switched-Mode Power Supply, ECO Power, 1-phase, output: 24 VDC / 5 A

Item No.	Pack. Unit
787-1722	1

EPSITRON® Switched-Mode Power Supply, ECO Power, 1-phase, output: 24 VDC / 10 A

Item No.	Pack. Unit
787-1732	1

Electrical Data

Input current I_i	1.0 ms typ. at 230 VAC; 2.0 A typ. at 115 VAC
Output current I_o	5 A at 24 VDC and 110 ... 240 VAC 4 A at 24 VDC and 100 ... 240 VAC
Efficiency	> 88 % (at 230 VAC and 5 ADC)
Derating	-3 % / K (> 45 °C)
Internal fuse	F 3.15 A / 250 V

Mechanical Data

Dimensions (mm) W x H x L	60 x 130 x 90, Length from upper-edge of DIN-35 rail
Weight	550 g
Installation width (as delivered):	60 mm

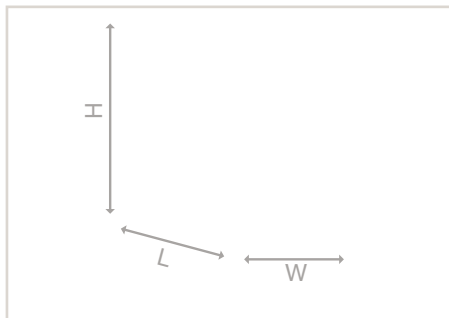
Input current I_i	2.0 ms typ. at 230 VAC; 4.0 A typ. at 115 VAC
Output current I_o	10 A at 24 VDC and 110 ... 240 VAC 8 A at 24 VDC and 100 ... 240 VAC
Efficiency	> 91 % (at 230 VAC and 10 ADC)
Derating	-4 % / K (> 45 °C)
Internal fuse	F 5 A / 250 V

Dimensions (mm) W x H x L	70 x 165 x 99, Length from upper-edge of DIN-35 rail
Weight	840 g
Installation width (as delivered):	70 mm

Switched-Mode Power Supply, 3-Phase

EPSITRON® ECO Power

787 Series

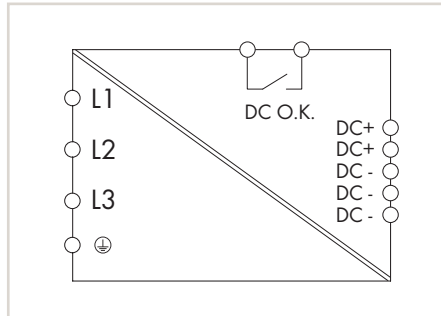


Features:

- Natural convection cooling when horizontally mounted
- Enclosed for use in control cabinets
- Fast and tool-free termination via lever-actuated terminal blocks
- DC OK contact
- Parallel operation
- Electrically isolated output voltage (SELV) acc. to EN 60950-1/UL 60950-1; PELV acc. to EN 60204

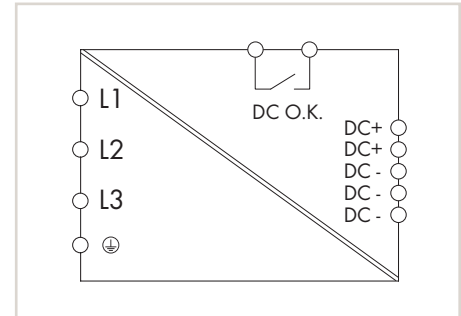
Technical Data

Input	
Nominal input voltage $U_{i, nom}$	3 x (2 x) AC 400 V
Input voltage range	360 ... 460 VAC; 500 ... 650 VDC (no damage up to 575 VAC/800 VDC under normal conditions)
Frequency	47 ... 63 Hz
Power factor	≥ 0.5
Discharge current	< 3.5 mA
Mains failure hold-up time	> 17 ms at 3 x 400 VAC
Output	
Nominal output voltage $U_{o, nom}$	24 VDC (SELV)
Output voltage range	22 ... 28 VDC adjustable
Factory preset	24 VDC
Adjustment accuracy	< 1 %
Residual ripple	< 100 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	LED green (U_o); LED red (overload)
Signaling	DC OK contact; Make contact (max. 31.2 V / 20 mA)
Fuse Protection	
External fuse	3 x circuit breakers ≥ 6 A, B or C characteristic; or motor circuit breakers; ; an external DC fuse is required for the DC input voltage.
General Specifications	
Standards/Approvals	EN 60950, EN 61204-3 (Class A), UL 60950, UL 508
Environmental Requirements	
Ambient operating temperature	-25 ... +70 °C
Storage temperature	-40 ... +85 °C
Relative humidity	10 ... 95 % (no condensation permissible)
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./SEC. DC OK	3 kV AC / 1.5 kV AC / 0.5 kV AC / 0.5 kV AC
Protection class	I
Degree of protection	IP20 per EN 60529
Overvoltage category	II
Overvoltage protection	Yes
Short-circuit-protection	Yes
No-load proof	Yes
Feedback voltage	30 V
Parallel operation	Yes
Series connection	Yes
MTBF	> 250,000 h (per IEC 61709)
Connection and Type of Mounting	
Connectors	Input/Output: WAGO 2706 Series Signaling: WAGO 2091 Series
Conductor range	Input/Output: 0.5 ... 6 mm ² / 20 ... 10 AWG Signaling: 0.2 ... 1.5 mm ² / 24 ... 14 AWG
Strip length	Input/Output: 11 ... 12 mm / 0.43 ... 0.47 inch Signaling: 8 ... 9 mm / 0.31 ... 0.35 inch
Type of mounting	DIN-rail mounting (EN 60715)



EPSITRON® Switched-Mode Power Supply, ECO Power, 3-phase, output: 24 VDC / 6.25 A, DC OK contact

Item No.	Pack. Unit
787-738	1



EPSITRON® Switched-Mode Power Supply, ECO Power, 3-phase, output: 24 VDC / 10 A, DC OK contact

Item No.	Pack. Unit
787-740	1

Electrical Data

Input current I_i	3 x 0.6 A at 400 VAC and 6.25 ADC
Inrush current	< 25 A
Output current I_o	6.25 A at 24 VDC
Efficiency	87 % typ.
Power loss P_v	18.5 W
Power loss P_v (max.)	20 W
Internal fuse	3 x T 2 A / 250 V
Derating	-2.5 % / K (> +50 °C; 400 VAC)

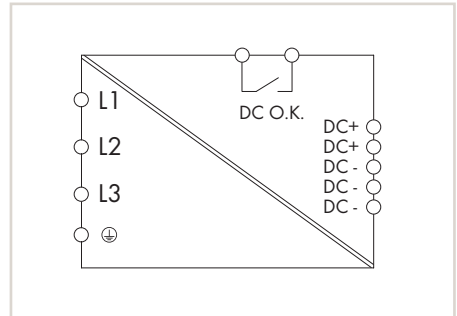
Mechanical Data

Dimensions (mm) W x H x L	50 x 130 x 92, Length from upper-edge of DIN-35 rail
Weight	730 g

Input current I_i	3 x 1.2 A at 400 VAC and 10 ADC
Inrush current	< 25 A
Output current I_o	10 A at 24 VDC
Efficiency	89 % (typ.)
Power loss P_v	32.5 W
Power loss P_v (max.)	36 W
Internal fuse	3 x T 2 A / 250 V
Derating	-1.25 % / K (> +50 °C; 400 VAC)

Dimensions (mm) W x H x L	65 x 130 x 130, Length from upper-edge of DIN-35 rail
Weight	1130 g

Switched-Mode Power Supply, 3-Phase EPSITRON® ECO Power 787 Series



EPSITRON® Switched-Mode Power Supply, ECO Power, 3-phase, output: 24 VDC / 20 A, DC OK contact

Item No.	Pack. Unit
787-742	1

Electrical Data

Input current I_i	3 x 2.0 A at 400 VAC and 20 ADC
Inrush current	< 30 A
Output current I_o	20 A at 24 VDC
Efficiency	90 % (typ.)
Power loss P_v	50 W
Power loss P_v (max.)	55 W
Internal fuse	3 x T 5 A / 250 V
Derating	-2 % / K (> +50 °C; 400 VAC)

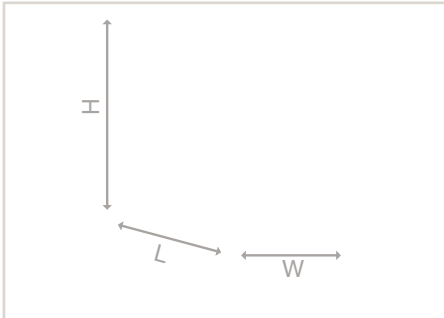
Mechanical Data

Dimensions (mm) W x H x L	110 x 130 x 151, Length from upper-edge of DIN-35 rail
Weight	1930 g

Switched-Mode Power Supply, 1-Phase

EPSITRON® COMPACT Power

787 Series

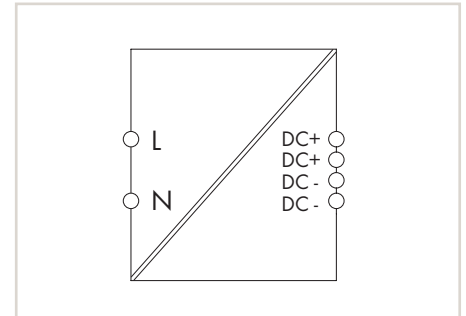
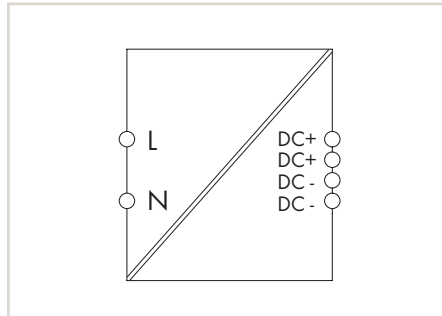


Features:

- Switched-Mode Power Supply unit
- Stepped profile for installation in standard distribution boards
- Pluggable *picoMAX*® connection technology (tool-free)
- Electrically isolated output voltage (SELV) acc. to EN 60950-1/UL 60950-1; PELV acc. to EN 60204
- Suitable for both parallel and series operation

Technical Data

Input	
Nominal input voltage $U_{i, \text{nom}}$	100 ... 240 VAC
Input voltage range	85 ... 264 VAC, 120 ... 373 VDC
Frequency	44 ... 66 Hz; 0 Hz
Inrush current	< 30 A, NTC
Output	
Nominal output voltage $U_{o, \text{nom}}$	24 VDC (SELV)
Output voltage range	22.8 ... 26.4 VDC adjustable
Factory preset	24 VDC
Adjustment accuracy	< 2 %
Residual ripple	< 100 mV (peak-to-peak)
Current limitation	1.1 x I_o , typ.
Overload behavior	Constant current
Operational indication	LED green (U_o)
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.
General Specifications	
Standards/Approvals	EN 60950-1, EN 61204-3, UL 60950-1, UL 508, GL* (* pending)
Environmental Requirements	
Ambient operating temperature	-25 ... +60 °C (UL: -25 ... +55 °C); Device start at -40 °C type-tested
Storage temperature	-25 ... +80 °C
Relative humidity	5 % ... 96 % (no condensation permissible)
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	II
Degree of protection	IP20 per EN 60529
Overvoltage category	II
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	> 500,000 h
Connection and Type of Mounting	
Connectors	Input/Output: <i>picoMAX</i> ® (WAGO 2092 Series)
Conductor range	Input/Output: 0.2 ... 2.5 mm ² / 28 ... 12 AWG
Strip length	Input/Output: 9 ... 10 mm / 0.35 ... 0.39 inch
Type of mounting	DIN-rail mounting (EN 60715)



EPSITRON® Switched-Mode Power Supply,
COMPACT Power, 1-phase,
output: 24 VDC / 1.3 A

	Item No.	Pack. Unit
	787-1102	1

EPSITRON® Switched-Mode Power Supply,
COMPACT Power, 1-phase,
output: 24 VDC / 2.5 A

	Item No.	Pack. Unit
	787-1112	1

Electrical Data

Input voltage derating	I_o max. 1 A (< 100 VAC)
Input current I_i	0.7 A at 110 VAC / 0.5 A at 230 VAC
Mains failure hold-up time	> 10 ms at 110 VAC; > 80 ms at 230 VAC
Output current I_o	1.3 A at 24 VDC; Max. 0.9 A in any mounting position
Efficiency	82 % (typ.)
Power loss P_v	2.6 W (230 VAC, no load); 7.0 W (230 VAC, nominal load)
Power loss P_v (max.)	7.3 W typ. (100 VAC / 24 VDC, 1.3 A)

Mechanical Data

Dimensions (mm) W x H x L	54 x 89 x 59, Length: 55 mm from upper-edge of DIN-35 rail
Weight	170 g

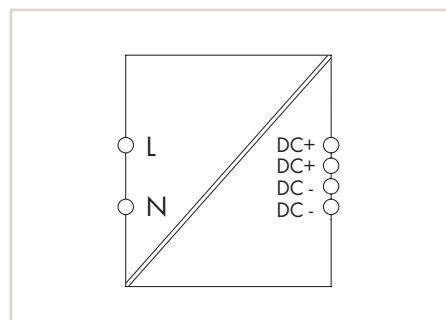
I_o max. 2 A (< 100 VAC); I_o max. 1.8 A (< 90 VAC)
1.4 A at 110 VAC / 0.6 A at 230 VAC
> 10 ms at 110 VAC; > 80 ms at 230 VAC
2.5 A at 12 VDC Max. 1.6 A in any mounting position
88 % (typ.)
2.2 W (230 VAC, no load); 8.5 W (230 VAC, nominal load)
10.5 W typ. (100 VAC / 12 VDC, 2.5 A)

72 x 89 x 59, Length: 55 mm from upper-edge of DIN-35 rail
240 g

Switched-Mode Power Supply, 1-Phase

EPSITRON® COMPACT Power

787 Series



EPSITRON® Switched-Mode Power Supply,
COMPACT Power, 1-phase,
output: 24 VDC / 4 A

Item No.	Pack. Unit
787-1122	1

Electrical Data

Input voltage derating	I_o max. 3.5 A (< 100 VAC); I_o max. 3 A (< 90 VAC)
Input current I_i	1.6 A at 110 VAC / 0.9 A at 230 VAC
Mains failure hold-up time	> 15 ms at 110 VAC / > 100 ms at 230 VAC
Output current I_o	4 A at 24 VDC; Max. 2.4 A in any mounting position
Efficiency	88 % (typ.)
Power loss P_v	0.8 W (230 VAC, no load); 13.1 W (230 VAC, nominal load)
Power loss P_v (max.)	14.8 W typ. (100 VAC / 24 VDC, 4 A)

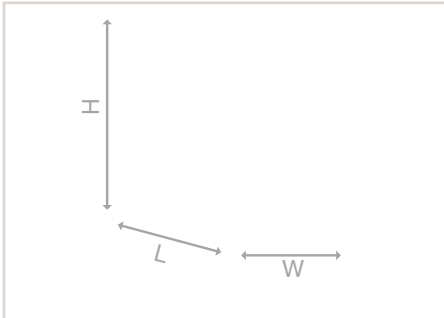
Mechanical Data

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

Switched-Mode Power Supply, 1-Phase

EPSITRON® COMPACT Power

787 Series

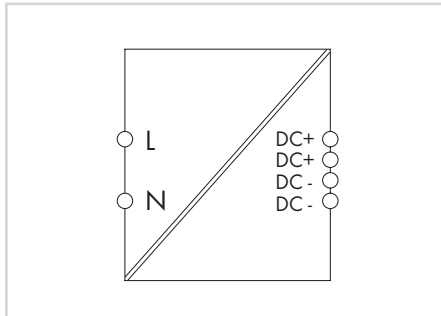


Features:

- Switched-Mode Power Supply unit
- Stepped profile, ideal for distribution boards or distribution boxes
- Removable front panel and screw mounts provide an ideal installation alternative in distribution boxes or devices
- Pluggable *picoMAX*® connection technology (tool-free)
- Electrically isolated output voltage (SELV) acc. to EN 60950-1/UL 60950-1 and EN 60335-1; PELV acc. to EN 60204
- Suitable for both parallel and series operation

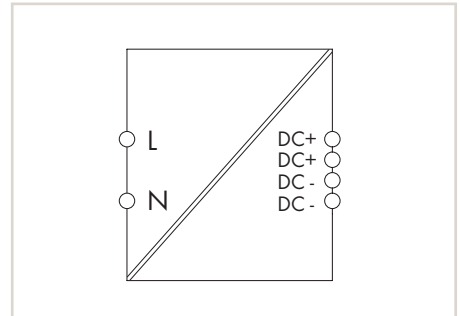
Technical Data

Input	
Frequency	47 ... 63 Hz
Power factor	> 0.5
Discharge current	< 0.25 mA
Inrush current	< 20 A
Output	
Nominal output voltage $U_{o, nom}$	24 VDC (SELV)
Output voltage range	22 ... 26 VDC adjustable
Factory preset	24 VDC
Adjustment accuracy	< 1 %
Deviation, dynamic load change 10 ... 90 %	< 1 %
Residual ripple	< 100 mV (peak-to-peak)
Overload behavior	Constant power (in overload range: 1.05 ... 1.35 x I_o); shutdown and automatic restart in the event of a short circuit or permanent overload
Operational indication	LED green (U_o)
Fuse Protection	
External fuse	Circuit breakers 6 A (C characteristic) 10 A (B characteristic) or higher;; an external DC fuse is required for the DC input voltage.
General Specifications	
Conformity marking	CE
Standards/Approvals	EN 61204-3, EN 60335-1, EN 60950-1, UL 60950, UL 508* (* pending)
Environmental Requirements	
Ambient operating temperature	-25 ... +70 °C
Storage temperature	-40 ... +85 °C
Relative humidity	95 % (no condensation permissible)
Derating	-2.66 % / K (> 55 °C)
Degree of pollution	2 (acc. to EN 50178)
Climatic category	3K3 (acc. to EN 60721, except for low air pressure)
Safety and Protection	
Enclosure	PC Plastic, light gray, Flammability class V2 acc. to UL94
Test voltage PRI-SEC	3 kV AC
Protection class	I
Degree of protection	IP20 per EN 60529
Overvoltage protection	< 31 VDC (in the event of a fault)
Short-circuit-protection	Yes
No-load proof	Yes
Feedback voltage	Max. 35 VDC
Parallel operation	Yes
Series connection	Yes
Connection and Type of Mounting	
Connectors	Input/Output: <i>picoMAX</i> ® (WAGO 2092 Series)
Conductor range	Input/Output: 0.2 ... 2.5 mm ² / 24 ... 12 AWG
Strip length	Input/Output: 9 ... 10 mm / 0.35 ... 0.39 inch
Type of mounting	DIN-rail-mount (EN 60715) or screw mount (back/side)



EPSITRON® Switched-Mode Power Supply,
COMPACT Power, 1-phase,
output: 24 VDC / 1.3 A

	Item No.	Pack. Unit
	787-1202	1



EPSITRON® Switched-Mode Power Supply,
COMPACT Power, 1-phase,
output: 24 VDC / 2.5 A

	Item No.	Pack. Unit
	787-1212	1

5

Electrical Data

Nominal input voltage $U_{I, nom}$	100 ... 240 VAC
Input voltage range	85 ... 264 VAC, 125 ... 375 VDC
Input voltage derating	-2 % / V (<100 VAC); -1.33 % / V (< 140 VDC)
Input current I_i	< 0.6 A
Mains failure hold-up time	≥ 70 ms
Output current I_o	1.3 A
Efficiency	> 87 % (230 VAC); > 82 % (110 VAC)
Power loss P_v	0.43 W (230 VAC, no load)
Power loss P_v (max.)	5.5 W (100 VAC; 1.3 ADC)
Internal fuse	T 1 A / 250 V
MTBF	> 700,000 h (per IEC 61709)

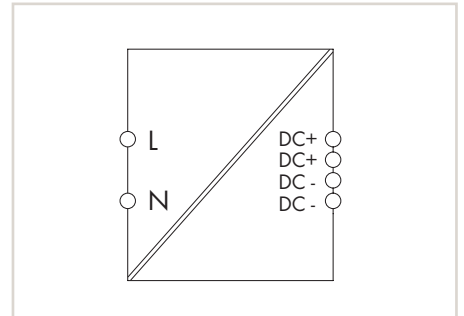
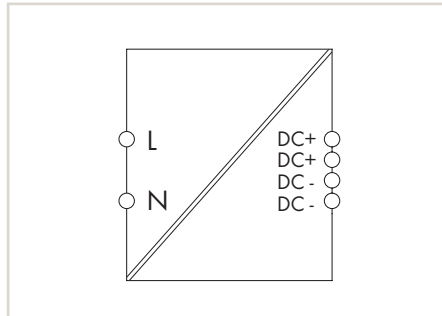
Mechanical Data

Dimensions (mm) W x H x L	54 x 90 x 56, Length: 52.5 mm from upper-edge of DIN-35 rail, 48 mm without front panel
Weight	210 g

Nominal input voltage $U_{I, nom}$	100 ... 240 VAC
Input voltage range	85 ... 264 VAC, 125 ... 375 VDC
Input voltage derating	-2 % / V (<100 VAC); -1.33 % / V (< 140 VDC)
Input current I_i	< 1.5 A
Mains failure hold-up time	≥ 60 ms
Output current I_o	2.5 A (2.0 A at U_i < 110 VAC)
Efficiency	> 89 % (230 VAC); > 87 % (110 VAC)
Power loss P_v	0.6 W (230 VAC, no load)
Power loss P_v (max.)	9 W (100 VAC; 2.5 ADC)
Internal fuse	T 2 A / 250 V
MTBF	> 500,000 h (acc. to IEC 61709)

Dimensions (mm) W x H x L	72 x 90 x 56, Length: 52.5 mm from upper-edge of DIN-35 rail 48 mm without front panel
Weight	270 g

Switched-Mode Power Supply, 1-Phase EPSITRON® COMPACT Power 787 Series



EPSITRON® Switched-Mode Power Supply, COMPACT Power, 1-phase, output: 24 VDC / 4.2 A

Item No.	Pack. Unit
787-1216	1

EPSITRON® Switched-Mode Power Supply, COMPACT Power, 1-phase, output: 24 VDC / 6 A

Item No.	Pack. Unit
787-1226	1

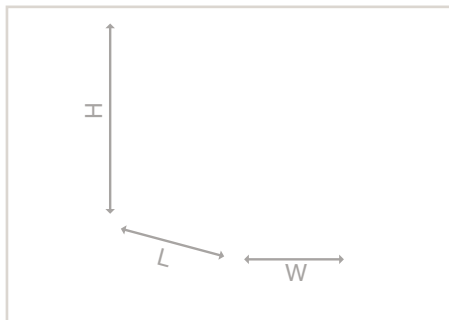
Electrical Data

Nominal input voltage U_{1nom}	100 ... 240 VAC	100 ... 120 VAC; 220 ... 240 VAC
Input voltage range	85 ... 264 VAC, 125 ... 375 VDC	90 ... 132 VAC; 180 ... 264 VDC
Input voltage derating	-2 % / V (<100 VAC); -1.33 % / V (< 140 VDC)	-2 % / (< 100 VAC)
Input current I_i	< 2.5 A	< 3.8 A
Mains failure hold-up time	≥ 50 ms	≥ 30 ms
Output current I_o	4.2 A (3.3 A at U_i < 110 VAC)	6 A (4.8 A at U_i < 110 VAC)
Efficiency	> 90 % (230 VAC); > 87 % (110 VAC)	> 90 % (230 VAC); > 89 % (110 VAC)
Power loss P_v	0.7 W (230 VAC, no load)	0.4 W (230 VAC, no load)
Power loss P_v (max.)	15 W (100 VAC; 4.2 ADC)	16.5 W (100 VAC; 6 ADC)
Internal fuse	T 3.15 A / 250 V	T 3.15 A / 250 V
MTBF	> 500,000 h	> 500,000 h
Mechanical Data		
Dimensions (mm) W x H x L	108 x 90 x 56, Length: 52.5 mm from upper-edge of DIN-35 rail	144 x 90 x 56, Length: 52.5 mm from upper-edge of DIN-35 rail
Weight	415 g	510 g

Switched-Mode Power Supply, 1-Phase

EPSITRON® COMPACT Power

787 Series

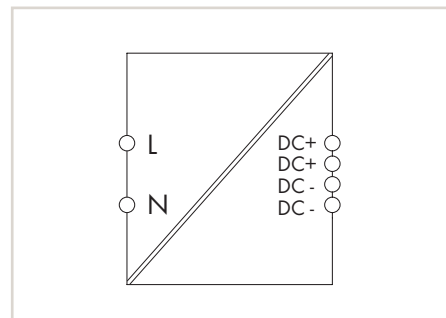
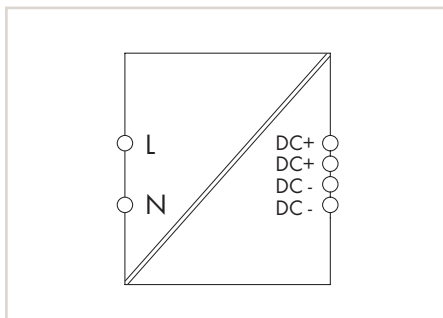


Features:

- Switched-Mode Power Supply unit
- Natural convection cooling when horizontally mounted
- Stepped profile, ideal for distribution boards or distribution boxes
- Overhead mounting is possible with derating
- Suitable for both parallel and series operation
- Electrically isolated output voltage (SELV) acc. to EN 60950-1/UL 60950-1; PELV acc. to EN 60204

Technical Data

Input	
Nominal input voltage $U_{i, \text{nom}}$	100 ... 240 VAC
Input voltage range	85 ... 264 VAC, 120 ... 373 VDC
Frequency	44 ... 66 Hz; 0 Hz
Discharge current	1 mA (typ.)
Inrush current	< 30 A, NTC
Output	
Adjustment accuracy	< 2 %
Current limitation	1.1 x I_o typ.
Overload behavior	Constant current
Operational indication	LED green (U_o)
Environmental Requirements	
Ambient operating temperature	-25 ... +60 °C (UL: -25 ... +55 °C); Device start at -40 °C type-tested
Relative humidity	5 % ... 96 % (no condensation permissible)
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	II
Degree of protection	IP20 per EN 60529
Overvoltage category	II
Short-circuit-protection	Yes
No-load proof	Yes
Parallel operation	Yes
Series connection	Yes
MTBF	> 500,000 h (acc. to IEC 61709)
Connection and Type of Mounting	
Connectors	Input/Output: WAGO 740 Series
Conductor range	Input/Output: 0.08 ... 2.5 mm ² / 28 ... 12 AWG
Strip length	Input/Output: 6 ... 7 mm / 0.24 ... 0.28 inch
Type of mounting	DIN-rail mounting (EN 60715)



EPSITRON® Switched-Mode Power Supply,
COMPACT Power, 1-phase,
output: 5 VDC / 5.5 A

Item No.	Pack. Unit
787-1020	1

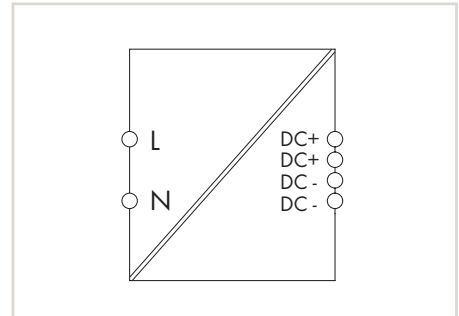
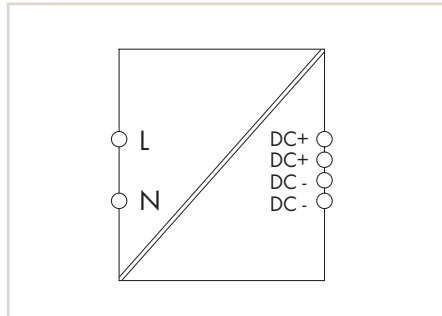
EPSITRON® Switched-Mode Power Supply,
COMPACT Power, 1-phase,
output: 12 VDC / 2 A

Item No.	Pack. Unit
787-1001	1

Electrical Data

Input voltage derating		< 100 VAC; I _o max. 1.5 A
Input current I _i	0.56 A at 110 VAC; 0.29 at 230 VAC	0.6 A at 110 VAC; 0.4 at 230 VAC
Mains failure hold-up time	> 10 ms at 110 VAC; > 80 ms at 230 VAC	> 10 ms at 110 VAC; > 80 ms at 230 VAC
Nominal output voltage U _{o,nom}	5 VDC, SELV	12 VDC (SELV)
Output voltage range	4.5 ... 8.5 VDC adjustable	10.8 ... 18 VDC adjustable
Factory preset	5 VDC	12 VDC
Output current I _o	5.5 A at 5 VDC; Max. 3.5 A in any mounting position	2 A at 12 VDC; 0.75 A at 18 VDC; Max. 1.4 A and 12 VDC in any mounting position
Residual ripple	< 100 mV (peak-to-peak) up to 20 MHz	< 100 mV (peak-to-peak) up to 20 MHz
Efficiency	75 % (typ.)	80 % (typ.)
Power loss P _v	2.4 W (230 VAC, no load) 9.4 W (230 VAC, nominal load)	2.6 W (230 VAC, no load) 6.0 W (230 VAC, nominal load)
Power loss P _v (max.)	9.9 W typ. (264 VAC / 5 VDC, 5.5 A)	6 W typ. (100 VAC / 12 VDC, 2 A)
Internal fuse	T 2 A / 250 V	T 2 A / 250 V
External fuse	Circuit breakers ≥ 6 A, B, C characteristic; ; an external DC fuse is required for the DC input voltage.	Circuit breakers ≥ 6 A, B, C characteristic; ; an external DC fuse is required for the DC input voltage.
Storage temperature	-25 ... +80 °C	-25 ... +80 °C
Degree of pollution	2 (acc. to EN 50178)	2 (acc. to EN 50178)
Overvoltage protection	< 16 VDC (in the event of a fault)	< 30 VDC (in the event of a fault)
Feedback voltage	Max. 10 VDC	Max. 25 VDC
Mechanical Data		
Dimensions (mm) W x H x L	72 x 89 x 59, Length: 55 mm from upper-edge of DIN-35 rail	54 x 89 x 59, Length: 55 mm from upper-edge of DIN-35 rail
Weight	240 g	180 g
General Specifications		
Standards/Approvals	EN 60950-1, EN 61204-3, UL 60950-1, UL 508 GL* (*pending)	EN 60950, EN 61204-3, UL 60950, UL 508, GL

Switched-Mode Power Supply, 1-Phase EPSITRON® COMPACT Power 787 Series



EPSITRON® Switched-Mode Power Supply, COMPACT Power, 1-phase, output: 12 VDC / 4 A

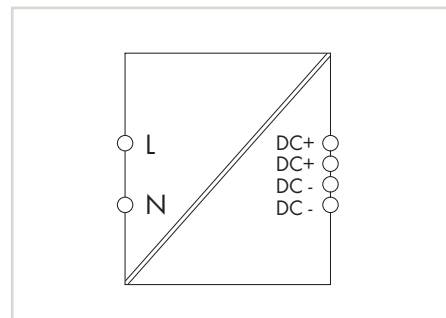
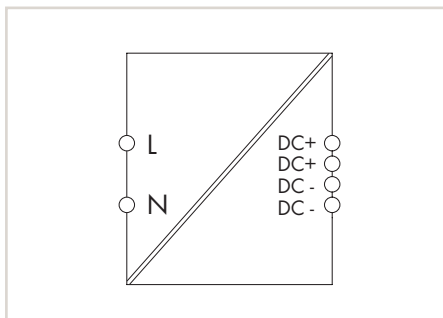
Item No.	Pack. Unit
787-1011	1

EPSITRON® Switched-Mode Power Supply, COMPACT Power, 1-phase, output: 12 VDC / 6.5 A

Item No.	Pack. Unit
787-1021	1

Electrical Data

Input voltage derating	< 100 VAC: I _o max. 3.5 A	Max. 6 A (< 100 VAC); 5.5 A (< 90 VAC)
Input current I _i	0.9 A at 110 VAC; 0.5 at 230 VAC	0.9 A at 110 VAC; 0.5 at 230 VAC
Mains failure hold-up time	> 10 ms at 110 VAC; > 80 ms at 230 VAC	> 15 ms at 110 VAC / > 100 ms at 230 VAC
Nominal output voltage U _{o,nom}	12 VDC (SELV)	12 VDC (SELV)
Output voltage range	10.5 ... 15.5 VDC adjustable	10.5 ... 15.5 VDC adjustable
Factory preset	12 VDC	12 VDC
Output current I _o	4 A at 12 VDC Max. 2.4 A in any mounting position	6.5 A at 12 VDC Max. 3.9 A (12 VDC) in any mounting position
Residual ripple	< 100 mV (peak-to-peak) up to 20 MHz	< 100 mV (peak-to-peak) up to 20 MHz
Efficiency	85 % (typ.)	87 % typ.
Power loss P _v	2.2 W (230 VAC, no load); 8.5 W (230 VAC, nominal load)	< 1 W (no load) 15 W (nominal load)
Power loss P _v (max.)	9 W typ. (100 VAC / 12 VDC, 4 A)	15 W typ. (100 VAC / 12 VDC, 6.5 A)
Internal fuse	T 2 A / 250 V	T 4 A / 250 V
External fuse	Circuit breakers ≥ 6 A, B, C characteristic; ; an external DC fuse is required for the DC input voltage.	Circuit breakers ≥ 6 A, B, C characteristic; ; an external DC fuse is required for the DC input voltage.
Storage temperature	-25 ... +80 °C	-25 ... +80 °C
Degree of pollution	2 (acc. to EN 50178)	2 (acc. to EN 50178)
Overvoltage protection	< 30 VDC (in the event of a fault)	< 30 VDC (in the event of a fault)
Feedback voltage	Max. 25 VDC	Max. 25 VDC
Mechanical Data		
Dimensions (mm) W x H x L	72 x 89 x 59, Length: 55 mm from upper-edge of DIN-35 rail	90 x 89 x 59, Length: 55 mm from upper-edge of DIN-35 rail
Weight	255 g	300 g
General Specifications		
Standards/Approvals	EN 60950, EN 61204-3, UL 60950, UL 508, GL	EN 60950, EN 61204-3, UL 60950, UL 508, GL



EPSITRON® Switched-Mode Power Supply,
COMPACT Power, 1-phase,
output: 18 VDC / 2.5 A

	Item No.	Pack. Unit
	787-1017	1

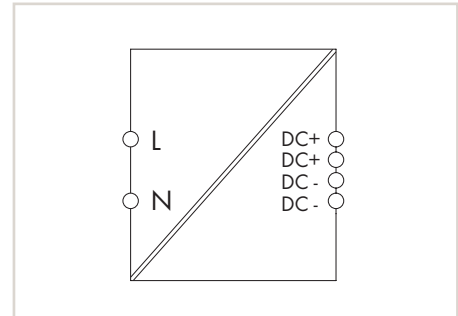
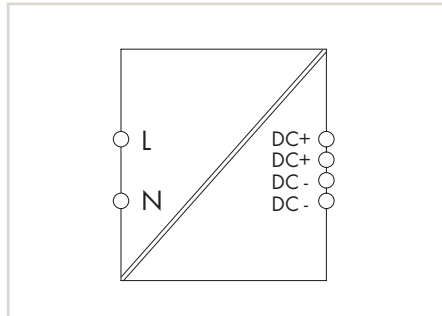
EPSITRON® Switched-Mode Power Supply,
COMPACT Power, 1-phase,
output: 24 VDC / 1.3 A

	Item No.	Pack. Unit
	787-1002	1

Electrical Data

Input voltage derating	Max. 2 A (< 100 VAC)	< 100 V: I _o , max. 1 A
Input current I _i	0.9 A at 110 VAC; 0.5 at 230 VAC	0.7 A at 110 VAC; 0.5 at 230 VAC
Mains failure hold-up time	> 10 ms at 110 VAC; > 130 ms at 230 VAC	> 10 ms at 110 VAC; > 80 ms at 230 VAC
Nominal output voltage U _{o,nom}	18 VDC	24 VDC (SELV)
Output voltage range	15 ... 28 VDC adjustable	22.8 ... 26.4 VDC adjustable
Factory preset	18 VDC	24 VDC
Output current I _o	2.4 at 18 VDC; 2.0 A at 24 VDC in any mounting position	1.3 A at 24 VDC Max. 0.9 A in any mounting position
Residual ripple	< 100 mV (peak-to-peak) up to 20 MHz	< 100 mV (peak-to-peak) up to 20 MHz
Efficiency	84 % (typ.)	82 % (typ.)
Power loss P _v	2.6 W (230 VAC, no load), 8.1 W (230 VAC, nominal load)	2.6 W (230 VAC, no load) 7.0 W (230 VAC, nominal load)
Power loss P _v (max.)	8.2 W typ. (100 VAC / 18 VDC, 2.4 A)	7.3 W typ. (100 VAC / 24 VDC, 1.3 A)
Internal fuse	T 2 A / 250 V	T 2 A / 250 V
External fuse	Circuit breakers ≥ 6 A, B, C characteristic; ; an external DC fuse is required for the DC input voltage.	Circuit breakers ≥ 6 A, B, C characteristic; ; an external DC fuse is required for the DC input voltage.
Storage temperature	-25 ... +80 °C	-25 ... +80 °C
Degree of pollution	2 (acc. to EN 50178)	2 (acc. to EN 50178)
Overvoltage protection	< 40 VDC (in the event of a fault)	< 40 VDC (in the event of a fault)
Feedback voltage	Max. 35 VDC	Max. 30 VDC
Mechanical Data		
Dimensions (mm) W x H x L	72 x 89 x 59, Length: 55 mm from upper-edge of DIN-35 rail	54 x 89 x 59, Length: 55 mm from upper-edge of DIN-35 rail
Weight	250 g	180 g
General Specifications		
Standards/Approvals	EN 60950, EN 61204-3, UL 60950-1, UL 508, GL * (* pending)	EN 60950, EN 61204-3, UL 60950, UL 508, GL

Switched-Mode Power Supply, 1-Phase EPSITRON® COMPACT Power 787 Series



EPSITRON® Switched-Mode Power Supply, COMPACT Power, 1-phase, output: 24 VDC / 2.5 A

Item No.	Pack. Unit
787-1012	1

EPSITRON® Switched-Mode Power Supply, COMPACT Power, 1-phase, output: 24 VDC / 4 A

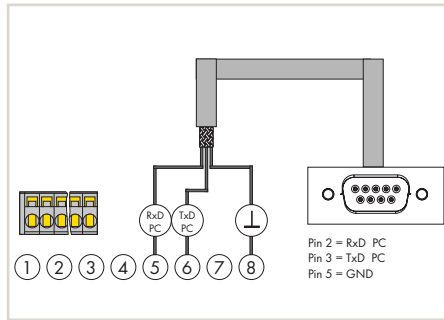
Item No.	Pack. Unit
787-1022	1

Electrical Data

Input voltage derating	< 100 V: I _o max. 2.0 A; < 90 V: I _o max. 1.8 A	upon request
Input current I _i	1.4 A at 110 VAC; 0.6 at 230 VAC	1.6 A at 110 VAC; 0.9 at 230 VAC
Mains failure hold-up time	> 10 ms at 110 VAC; > 80 ms at 230 VAC	> 15 ms at 110 VAC / > 100 ms at 230 VAC
Nominal output voltage U _{o,nom}	24 VDC (SELV)	24 VDC (SELV)
Output voltage range	22.8 ... 26.4 VDC adjustable	22.8 ... 26.4 VDC adjustable
Factory preset	24 VDC	24 VDC
Output current I _o	2.5 A at 24 VDC Max. 1.6 A in any mounting position	4 A at 24 VDC Max. 2.4 A in any mounting position
Residual ripple	< 100 mV (peak-to-peak) up to 20 MHz	< 100 mV (peak-to-peak) up to 20 MHz
Efficiency	88 % (typ.)	88 % (typ.)
Power loss P _v	2.2 W (230 VAC, no load); 8.5 W (230 VAC, nominal load)	0.8 W (230 VAC, no load); 13.1 W (230 VAC, nominal load)
Power loss P _v (max.)	10.5 W typ. (100 VAC / 24 VDC, 2.5 A)	14.8 W typ. 264 VAC / 24 VDC, 6 A)
Internal fuse	T 2 A / 250 V	T 4 A / 250 V
External fuse	Circuit breakers ≥ 6 A, B, C characteristic; ; an external DC fuse is required for the DC input voltage.	Circuit breakers ≥ 6 A, B, C characteristic; ; an external DC fuse is required for the DC input voltage.
Storage temperature	-25 ... +80 °C	-25 ... +80 °C
Degree of pollution	2 (acc. to EN 50178)	2 (acc. to EN 50178)
Overvoltage protection	< 40 VDC (in the event of a fault)	< 40 VDC (in the event of a fault)
Feedback voltage	Max. 30 VDC	Max. 30 VDC
Mechanical Data		
Dimensions (mm) W x H x L	72 x 89 x 59, Length: 55 mm from upper-edge of DIN-35 rail	90 x 89 x 59, Length: 55 mm from upper-edge of DIN-35 rail
Weight	255 g	310 g
General Specifications		
Standards/Approvals	EN 60950, EN 61204-3, UL 60950, UL 508, GL	EN 60950, EN 61204-3, UL 60950, UL 508, GL

Accessories

EPSITRON® Communication Cable with an RS-232 Interface 787 Series



Similar to pictured device

Wiring diagram shows 787-890

The communication cables are used for configuration and visualization via PC or controller. The communication cables are suitable for 787-1675 or all 787-8xx Series devices equipped with an RS-232 serial interface. Download the corresponding PC software for all 787 Series devices at www.wago.com/epsitron.

Function blocks for communication with the WAGO-I/O-SYSTEM 750 and other control systems are also available.

Note: The 787-890 or 787-892 Communication Cables are not electrically isolated.

Technical Data

Type of signal

Connectors

Isolation

Conductor range

Ambient operating temperature

Degree of protection

Length

Serial Signal (RS-232)

1 x 8-pole 733-108 Female Connector with strain relief (module side, 787-890, 787-8xx), or 1 x 4-pole 734-104 Female Connector with strain relief (787-892 module side, 787-1675), 1 x 9-pole D-sub female connector (PC/controller side)

No

3 x 0.34 mm² (AWG 22), shielded

-10 ... +70 °C

IP20

1.8 m

Communication cable with an RS-232 interface

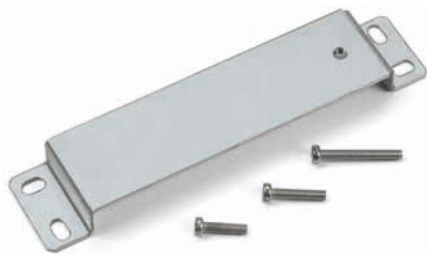
for	Item No.	Pack. Unit
787-8xx	787-890	1
787-1675	787-892	1

Accessories

EPSITRON® Wall-Mount Adapter/Carrier Rail Adapters

787 Series

EPSITRON® Wall-Mount Adapter



The 787-895 Wall-Mount Adapter secures 787-8xx devices on mounting plate or wall without DIN-35 rail. This adapter replaces the rail support of the 787-8xx device. The adapter is secured to the 787-8xx device via provided screws.

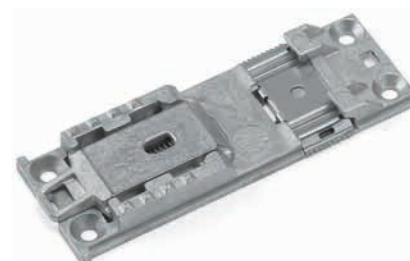
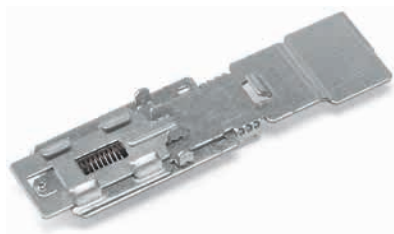
Technical Data

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

Wall-mount adapter, secures 787-8xx devices on a mounting plate or wall, without DIN-35 rail

	Item No.	Pack. Unit
	787-895	5

EPSITRON® Carrier Rail Adapters



Carrier rail adapter for mounting 787-8xx devices to a DIN-35 rail. The 787-896 Carrier Rail Adapter allows both the 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; this allows the position to be easily changed.

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; this allows the position to be easily changed. this allows the position to be easily changed.

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

	Item No.	Pack. Unit
	787-896	1

Carrier rail adapter, Zinc die-cast, for mounting 787-8xx devices to a DIN-35 rail

	Item No.	Pack. Unit
	787-897	1

Technical Data

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

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