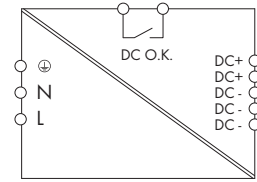


## Switched-Mode Power Supply, 1-Phase

EPSITRON® ECO Power



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

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

Description	Item No.	Pack. Unit
Switched-mode power supply, 24 VDC / 20 A	787-734	1
<b>Technical Data</b>		
<b>Environmental requirements:</b>		
Ambient operating temperature	-25 °C ... +70 °C	
Storage temperature	-25 °C ... +85 °C	
Rel. humidity	95 % (no condensation)	
Derating	see instruction manual	
Degree of pollution	2 (acc. to EN 50178)	
Climatic category	3K3 (acc. to EN 60721)	
<b>Safety and protection:</b>		
Test voltage		
PRI-SEC/PRI-GND/SEC-GND	3 kV AC / 1.5 kV AC / 0.5 kV AC	
Protection class	Prepared for class I equipment	
Degree of protection	IP20 (acc. to EN 60529)	
Overvoltage protection	via varistor at primary circuit	
Short circuit protection	yes	
No-load proof	yes	
Feedback voltage	29 VDC	
Parallel operation	yes	
Series connection	yes	
MTBF	> 250000 h	
<b>Connection and type of mounting:</b>		
Wire connection	Input/Signalising: WAGO 2706 Series Output: WAGO 2716 Series	
Cross sections	Input/Signalising: 0.5 mm <sup>2</sup> ... 6 mm <sup>2</sup> / AWG 20 ... 10 Output: 1.5 mm <sup>2</sup> ... 16 mm <sup>2</sup> / AWG 16 ... 6	
Strip lengths	Input/Signalising: 11 ... 12 mm / 0.45 in Output: 12 ... 13 mm / 0.47 in	
Type of mounting	DIN-rail mount (EN 60715)	
<b>Dimensions and weight:</b>		
Dimensions (mm) W x H x L	115 x 136 x 144 Length from upper-edge of DIN 35 rail	
Weight	2120 g	
<b>Standards and approvals:</b>		
Standards/Specifications	EN 60950 (SELV), EN 61000-6-2, EN 61000-6-3 UL 60950, UL 508* (* pending)	