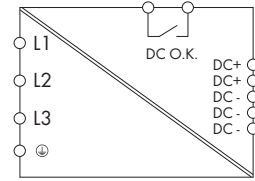


Switched-Mode Power Supply

EPSITRON® ECO Power



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

Description	Item No.	Pack. Unit
Switched-mode power supply, 24 VDC / 12.5 A	787-740	1

Technical Data	
Input:	
Nominal input voltage $V_{i, nom}$	3 x (2 x) 400 V ... 500 VAC
Input voltage range	325 V ... 575 VAC; 460 V ... 800 VDC
Frequency	47 Hz ... 63 Hz
Input current I_i	3 x 0.6 A at 400 VAC and 12.5 ADC
Power factor	≥ 0.6
Discharge current	< 3.5 mA
Inrush current	< 25 A
Mains failure hold-up time	> 17 ms at 3x 400 VAC
Output:	
Nominal output voltage $V_{o, nom}$	24 VDC (SELV)
Output voltage range	22 ... 28 VDC adjustable
Output current I_o	12.5 A at 24 VDC
Factory preset	24 VDC
Adjustment accuracy	1 %
Residual ripple	< 80 mV _{pp}
Overload behavior	Power limitation at 1.15 ... 1.4 x I_o ; Shutdown in the event of a short-circuit and permanent overload
Operational indication	Green LED (V_o) Red LED (overload)
Signaling	DC O.K. contact; Make contact (max. 31.2 V / 20 mA)
Efficiency/Power losses:	
Efficiency	89 % typ.
Power loss P_V	32.5 W
Max. power loss P_V	36 W
Fuse protection:	
Internal fuse	3 x T2A
External fuse	3 x circuit breakers 10 A, 16 A, B or C characteristic, or motor circuit breakers
	External DC fuse required for DC input voltage
Environmental requirements:	
Ambient operating temperature	-25 °C ... +70 °C
Storage temperature	-40 °C ... +85 °C
Rel. humidity	95% (no condensation permissible)

Technical Data	
Environmental requirements:	
Derating	-2 % / K (> +50 °C)
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	Prepared for class I equipment
Degree of protection	IP20 (acc. to EN 60529)
Overvoltage protection	yes
Short circuit protection	yes
No-load proof	yes
Feedback voltage	30 V
Parallel operation	yes
Series connection	yes
MTBF	> 250000 h
Connection and type of mounting:	
Wire connection	Input/Output: WAGO 2706 Series Signaling: WAGO 2091 Series
Cross sections	Input/Output: 0.5 mm ² ... 6 mm ² / AWG 20 ... 10 Signaling: 0.2 mm ² ... 1.5 mm ² / AWG 24 ... 14
Strip lengths	Input/Output: 11 ... 12 mm / 0.43 ... 0.47 in Signaling: 8 ... 9 mm / 0.31 ... 0.35 in
Type of mounting	DIN-rail mount (EN 60715)
Dimensions and weight:	
Dimensions (mm) W x H x L	65 x 130 x 130 Length from upper-edge of DIN 35 rail
Weight	2120 g
Standards and approvals:	
Standards/Specifications	EN 60950, EN 61000-6-2, EN 61000-6-3, UL 60950*, UL 508* (* pending)