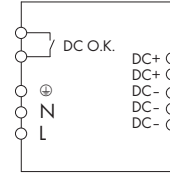


## Switched-Mode Power Supply

EPSITRON® ECO Power



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

Description	Item No.	Pack. Unit
Switched-Mode Power Supply, 24 VDC / 40 A	787-736	1

Technical Data	
<b>Input:</b>	
Nominal input voltage $V_i$ nom	100 ... 240 VAC
Input voltage range	85 ... 264 VAC; 120 ... 370 VDC (use of DC requires external protection)
Frequency	47 Hz ... 63 Hz
Input current $I_i$	< 6 A at 230 VAC; < 12 A at 115 VAC
Discharge current	< 3.5 mA
Inrush current	< 30 A at 230 VAC; < 25 A at 115 VAC
Mains failure hold-up time	> 17 ms at AC 230 V / nominal load
Power factor	> 0.94 at 230 VAC > 0.98 at 115 VAC
<b>Output:</b>	
Nominal output voltage $V_o$ nom	24 VDC, SELV
Output voltage range	22 ... 28 VDC adjustable
Output current $I_o$	40 A at 24 VDC
Factory preset	24 VDC
Adjustment accuracy	1 %
Residual ripple	< 100 mV (peak-peak)
Overload behavior	Constant power (in overload range: 1.15 ... 1.4 x $I_o$ ); shutdown and automatic restart in the event of a short circuit
Operational indication	LED green (24 V DC o.k.), LED red (overload)
Signaling	Contact DC o.k.; make contact (max. 31.2 V / 20 mA)
<b>Efficiency / power losses:</b>	
Efficiency	90 % typ.
Power loss $P_v$	107 W at AC 230 V / nominal load
<b>Fuse protection:</b>	
Internal fuse	20 AT / 250 V
External fuse	Circuit breakers 13 A, 16 A, 20 A, characteristic: B or C An external DC fuse is required for the DC input voltage

Technical Data	
<b>Environmental requirements:</b>	
Ambient operating temperature	-25 °C ... +70 °C
Storage temperature	-40 °C ... +85 °C
Rel. humidity	95 % (no condensation)
Derating	-2.66 % / K (> 55 °C); -2 % / V ( $V_i$ < 100 VAC)
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.-gr./sec.-gr./ sec.-DC o.k.	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	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 / 0.43 ... 0.47 in Output: 12 ... 13 mm / 0.47 ... 0.51 in
Type of mounting	DIN-rail mounting (DIN EN 50022)
<b>Dimensions and weight:</b>	
Dimensions (mm) W x H x L	170 x 136 x 150
Weight	Length from upper-edge of DIN 35 rail 3500 g
<b>Standards and approvals:</b>	
Standards/Specifications	EN 60950 (SELV)*, EN 61000-6-2*, EN 61000-6-3*, UL 60950*, UL 508* (* pending)