

Switched-Mode Power Supply, 1-Phase

EPSITRON® CLASSIC Power



Similar to picture



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

Technical Data

Input:

Nominal input voltage $V_{i\text{nom}}$	100 ... 240 VAC
Input voltage range	85 ... 264 VAC; 120 V ... 372 VDC
Input voltage derating	-2.5 % (< 95 VAC)
Frequency	47 Hz ... 63 Hz; 0 Hz
Input current I_i	0.2 A (240 VAC); 0.43 A (100 VAC)
Inrush current	< 30 A
Mains failure hold-up time	120 ms (230 VAC); 20 ms (100 VAC)

Output:

Nominal output voltage $V_{o\text{nom}}$	24 VDC (SELV)
Output voltage range	23 ... 28.5 VDC adjustable
Output current I_o	1 A at 24 VDC (1.2 A up to 40 °C)
Factory preset	24 VDC
Adjustment accuracy	< 1 %
Residual ripple	20 mV (peak-to-peak) typ.
Current limitation	1.1 x I_o typ.
Overload behavior	Constant current
Operational indication	Green LED (V_o)
Signaling	1 x active signal output 24 VDC, 20 mA

Efficiency/Power losses:

Efficiency	86 % typ.
Power loss P_V	< 1 W (230 VAC, no load); 3.9 W (230 VAC, nominal load)
Max. power loss P_V	4.2 W typ. (100 VAC / 24 VDC, 1 A)

Fuse protection:

Internal fuse	T 2 A / 250 V
External fuse	Circuit breakers 6 A, 10 A, 16 A, B or C characteristic; An external DC fuse is required for the DC input voltage

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

Technical Data

Environmental Requirements:

Ambient operating temperature	-25 °C ... +70 °C; Device start at -40 °C (type-tested)
Storage temperature	-25 °C ... +85 °C
Relative humidity	30 % ... 85 % (no condensation permissible)
Derating	-3 %/K (> 50 °C)
Degree of pollution	2 (acc. to EN 50178)
Climatic category	3K3 (acc. to EN 60721)

Safety and protection:

Test voltage pri. - sec.	4.2 kV DC
Protection class	II
Degree of protection	IP20 (acc. to EN 60529)
Overvoltage protection	Varistor (input side); internal protective circuit, < 39 VDC (output side in case of an error)
Short circuit protection	yes
No-load proof	yes
Feedback voltage	max. 35 VDC
Parallel operation	yes
Series connection	yes
MTBF	> 500,000 h (acc. to IEC 61709)

Connection and type of mounting:

Wire connection	Input/Output/Signaling: WAGO 721 Series
Cross sections	Input/Output/Signaling: 0.08 mm ² ... 2.5 mm ² / AWG 28 ... 12
Strip lengths	Input/Output/Signaling: 8 ... 9 mm / 0.31 ... 0.35 in
Type of mounting	DIN-rail mount (EN 60715)

Dimensions and weight:

Dimensions (mm) W x H x L	22.5 x 90 x 107.5
Weight	Length from upper-edge of DIN 35 rail 128 g

Standards and approvals:

Standards/Specifications	EN 60950-1, EN 61204-3, EN 60335-1, UL 60950-1, UL 508, GL * (* pending)
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