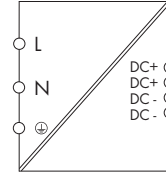


## Switched-Mode Power Supply

EPSITRON® ECO Power



- Primary switch mode power supply unit
- Prepared for class I equipment
- Natural convection cooling when horizontally mounted
- Enclosed for use in switchgear cabinets
- Parallel operation, series connection possible
- Electrically isolated output voltage (SELV) acc. to EN 60950-1/UL 60950

## Technical Data

## Input:

Nominal input voltage $V_i$ nom	110 ... 240 VAC
Input voltage range	85 ... 264 VAC; 130 ... 373 VDC (use of DC requires external protection)
Frequency	47 - 63 Hz
Input current $I_i$	1.0 A typ. at 230 VAC; 2.0 A at 115 VAC
Discharge current	< 3.5mA
Inrush current	< 30 A
Mains failure hold-up time	> 20 ms at 230 VAC

## Output:

Nominal output voltage $V_o$ nom	24 VDC (SELV)
Output voltage range	22 ... 28 VDC adjustable
Output current $I_o$	5 A at 24 V DC
Factory preset	24 VDC
Adjustment accuracy	1 %
Residual ripple	< 100 mVpp to 20 MHz
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)

## Efficiency / power losses:

Efficiency	82 % typ.
Power loss $P_V$	19.5 W (at 230 VAC and 5 ADC)
Max. power loss $P_V$	23.5 W (at 110 VAC and 5.5 ADC)

## Fuse protection:

Internal fuse	F 3.15 A / 250 V
External fuse	C10 or B16 circuit breakers An external DC fuse is required for the DC input voltage

Description	Item No.	Pack. Unit
Switched-Mode Power Supply, 24 VDC / 5 A	787-722	1

## Technical Data

## Environmental requirements:

Ambient operating temperature	-10 °C ... +60 °C
Storage temperature	-25 °C ... +85 °C
Rel. humidity	95 % (no condensation)
Derating	-5.33 % / K (> 45 °C at 230 VAC)
Degree of pollution	2 (acc. to EN 50178)
Climatic category	3K3 (acc. to EN 60721)

## Safety and protection:

Test voltage pri.-sec./ pri.-gr. / sec.-gr.	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	28 VDC
Parallel operation	yes
Series connection	yes
MTBF	480000 h (acc. IEC 61709)

## Connection and type of mounting:

Wire connection	CAGE CLAMP® (WAGO 745 Series)
Cross sections	0.08 mm <sup>2</sup> ... 4 mm <sup>2</sup> / AWG 28 ... 12 (THHN, THWN)
Strip lengths	8 ... 9 mm / 0.33 in
Type of mounting	DIN-rail mount (EN 60715)

## Dimensions and weight:

Dimensions (mm) W x H x L	75 x 92 x 136
Weight	850 g

## Standards and approvals:

Standards/Specifications	EN 60950, EN 61000-6-2, EN 61000-6-3, UL 60950, UL 508, ANSI/ISA 12.12.01 (Class I Div.2)*, ATEX* (* pending)
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