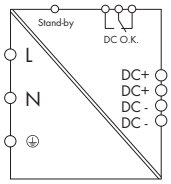
787-822

Switched-Mode Power Supply, 1-Phase

***EPSITRON*® PRO Power**



- Primary switch mode power supply unit with PowerBoost and TopBoost
- Stand-by input for switching off the output and minimizing power consumption
- DC OK contact for output monitoring
- Suitable for both parallel and series operation
- Natural convection cooling when horizontally mounted
- Enclosed for use in switchgear cabinets
- Electrically isolated output voltage (SELV) acc. to EN 60950-1/UL 60950-1

Description	Item No.	Pack. Unit
Switched-mode power supply, 24 V DC / 5 A	**787-822**	1

Technical Data

Input:	
Nominal input voltage $V_{i\,nom}$	100 ... 240 VAC
Input voltage range	85 ... 264 VAC; 120 ... 350 VDC
Frequency	50 Hz ... 60 Hz
Input current I_i	0.97 A at 230 VAC and 5 ADC
Discharge current	1 mA typ.
Inrush current	< 15 A
Mains failure hold-up time	35 ms typ. at 230 VAC
Output:	
Nominal output voltage $V_{o\,nom}$	24 VDC (SELV)
Output voltage range	22... 29.5 VDC adjustable
Output current I_o	5 A at 24 VDC
PowerBoost	10 ADC (for 4 sec.);
	7.5 ADC (for another 4 sec.)
TopBoost	21 ADC (for 25 ms)
Factory preset	24 VDC
Adjustment accuracy	1%
Residual ripple	< 70 mV (peak-to-peak)
Current limitation	1.1 x Io typ.
Overload behavior	Constant current
Operational indication	LED green (DC OK), LED red (error)
Signaling	Relay contact DC OK (changeover contact)
Efficiency / power losses:	
Efficiency	87.8 % typ.
Power loss P_V	0.5 W (stand-by) / 5.0 W (no load) /
	14.6 W (rated load)
Fuse protection:	
Internal fuse	T 4 A / 250 V
External fuse	C10 or B16 circuit breakers;
	an external DC fuse is required for the DC
	input voltage;
	transient overvoltage protection: Varistor

Technical Data

Environmental requirements:	
Ambient operating temperature	-25°C ... +70°C
Storage temperature	-25 °C ... +85 °C
Rel. humidity	5 % ... 96 % (no condensation permissible)
Derating	-2.5 % / K (> 55 °C)
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.	4.2 kV DC / 2.2 kV DC / 0.7 kV DC
Protection class	I
Degree of protection	IP20 (acc. to EN 60529)
Overvoltage category	II
Overvoltage protection	Via varistor at primary circuit
Short circuit protection	Yes
No-load proof	Yes
Feedback voltage	Max. 35 VDC
Parallel operation	Yes
Series connection	Yes
MTBF	> 500000 h (acc. to IEC 61709)
Connection and type of mounting:	
Wire connection	Input/Output: WAGO 231 Series
	Signalising: WAGO 733 Series
Cross sections	Input/Output:
	0.08 mm² ... 2.5 mm² / 28 ... 12 AWG
	Signalising:
	0.08 mm² ... 0.5 mm² / 28 ... 20 AWG
Strip lengths	Input/Output: 8 ... 9 mm / 0.31 ... 0.35 in.
	Signalising: 5 ... 6 mm / 0.2 ... 0.24 in.
Type of mounting	DIN-rail mounting (EN 60715) in
	2 positions
Dimensions and weight:	
Dimensions (mm) W x H x L	57 x 163 x 163
	Length from upper-edge of DIN 35 rail
Weight	1268 g
Standards and approvals:	
Standards/specifications	EN 60950, EN 61204-3, UL 60950,
	EN 61558-2-16, UL 508