

Single phase, primary switched mode power supply, Economy

PVSE 230/12-10



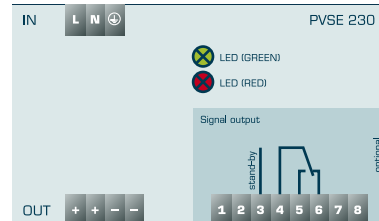
Advantages

Stabilised and adjustable output voltage
Up to 200 % real power boost for 4 seconds
Top boost to trip conventional circuit breakers
DC OK signalling
Stand-by-input
Parallel connection option
Service-friendly spring-loaded connector system
Optional with active inrush current limiter

Applications

Primary switched mode power supply with massive power reserves focussing on the key task of power supply.

Simplified diagram



Standards

Primary switched mode power supply
to UL 60950, UL 508

Safety:
EN 61558-2-16, EN 60950-1

EMC:
EN 61204-3

Approvals



UL/CSA 60950 recognised, UL508 listed



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Electrical data

Type	PVSE 230/12-10
Input	
Input rated voltage	100 - 240 Vac
Input rated current (rated load)	1.7 / 0.97 Aac (110 / 230 Vac)
Input voltage range	85 - 264 Vac (120 - 373 Vdc)
Rated frequency range	44 Hz - 66 Hz / 0 Hz
Starting current limiter	<30 A, NTC
Input fuse internal	4 A (slow-blow)
Recommended back-up fuse (circuit breaker)	6 A, 10 A, 16 A, characteristics B, C
Harmonic correction	-
Mains buffering	12 / 35 ms (110 / 230 Vac)
Transient surge voltage protection	Varistor
Output	
Output rated voltage	12 Vdc \pm 1 %
Output voltage range	11 - 18 Vdc
Resistance to reverse feed max.	25 Vdc
Output rated current	10.00 A
Parallel connection	Yes
Power Boost	20 A / 4 s (15 A / 8 s)
Overload behaviour	Constant current
max. Power loss idling/nominal load	5.0 / 14.6 W
Serial operation	Yes
Efficiency	typ. 87.8 %
Ripple factor	typ. 70 mVss
Top Boost	60 A / 25 ms
Signaling	
Stand-by-input	Yes
Power Good (DC OK)	LED green, LED red
Potential free signal contact	Yes
Standards	
Classification	Primary switched mode power supply
Approvals	
Approvals	cURus, cULus
Environment	
Storage temperature	-25° C to +85° C
Derating	-3 %/K > +50° C, -5 %/Vac < 95 Vac
Ambient temperature	-10° C to +70° C
Safety and protection	
Safety class	I, with PE connection
Protection index	IP 20
Accessory	
Connector for signalling	PV-CON (optional)
Side DIN Rail mounting	PV-TS35M (optional)
Direct screw fastening plate for lateral mounting	PV-WB2 (optional)
Order numbers	
Order Number	PVSE 230/12-10

Mechanical data

Type	PVSE 230/12-10
Terminal and mounting	
Connections input, (spring clamp terminal, pluggable)	max. 2.5 mm ²
Connections output, (spring clamp terminal, pluggable)	max. 2.5 mm ²
Connections signalling, (spring clamp terminal, pluggable)	max. 0.5 mm ²
Mounting position	vertical
Fixing method	DIN Rail system TH 35
Measures and weights	
Weight	1.10 kg

