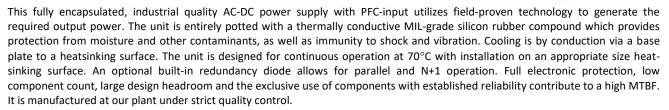
250W, Encapsulated AC-DC Power Supply with PFC-Input for Heavy Duty Applications PPF 250-P59XW Series

- Electronic power factor correction (PFC)
- Rugged, field-proven design topology
- Conduction/convection cooling
- Fully encapsulated
- Full electronic protection
- N+1 redundancy available



SPECIFICATIONS

Input Voltage

95-264Vac, universal, 45-65Hz Input Current: 3Arms max at 95V input Power factor is min 0.97 at full load for the entire input range. Meets EN61000-3-2 The input also accepts DC voltage in the 95-350Vdc range Consult factory for other voltages

Input Protection

Inrush current limiting Varistor Internal safety fuse Lower voltage than the specified min. input will not damage the unit

Isolation

2250VDC input to chassis 4300VDC input to output; 8mm spacing 500VDC output to chassis

Standards

Designed to meet EN62368-1 and related national standards

EMI

EN55032 Class A with margins

Switching Frequency

80kHz ± 8kHz – Input section 55kHz ± 3kHz – Output section

Hold-Up Time

Min. 5ms at any input for 5% drop in output voltage

Output Voltage/Current

12Vdc/20A, 24Vdc/10A, 48Vdc/5A, 72Vdc/3.5A, 110Vdc/2.2A, 125Vdc/2.0A continuous
Output is floating, either terminal can be grounded
Consult factory for other voltages.

Redundancy Diode

Not installed.

Available as option

Line/Load Regulation

 \pm 1% combined from zero load to full load

Dynamic Response

Max 5% voltage deviation for 10% to 50% load step, with better than 1msec recovery time

Output Ripple/Noise

Better than 1% of output voltage peak to peak or 0.2% Vrms (20MHz BW)

Output Overload Protection

Rectangular current limiting with short-circuit protection (no hiccup) Thermal shutdown in case of insufficient cooling (self-resetting)

Output Overvoltage Protection

Second regulator loop

Efficiency

Typically, 80% at full load depending on input/output configuration.

Operating Temperature Range

-40°C to +70°C cold plate temperature for full specification

Temperature Drift

0.03% per °C over operating temperature range.

Cooling

Conduction via baseplate to customer chassis or heatsink.

Environmental Protection

Full encapsulation with thermally conductive silicon potting compound With UL94V-0 flammability rating. Meets environmental criteria as requested in MIL-810 C, D

Shock/Vibration

IEC 61373 Cat 1 A&B

Humidity

5 – 95% non-condensing Contact factory for higher rating

MTBF

130,000 hours @ 45°C Demonstrated MTBF is significantly higher

Indicators

None

Control Input

None

Alarm output

Not installed Available as option

Dimensions

P59XW: 146 x 64 x 191 mm 5.8" x 2.5" x 7.5" including terminals and mounting flanges Mounting holes are clear

Weight

2kg (4.5 lbs.)

Connections

7-pole barrier-type terminal block with 3/8" spacing, cover included

RoHS Compliance

Compliant

Warranty

Two years subject to application within good engineering practice

Terminal Block Pin-out

I	DC OUTPUT				AC or DC INPUT		
	1	+	NOT USED	NOT USED	춵	∂ ≥ ⊕	ей
ı	1	2	3	4	5	6	7

ABSOPULSE power supplies are designed and built to customer requirements. The specifications on this data sheet are generic guidelines only and are subject to change.

OEM of industrial and railway quality DC-DC converters, AC-DC power supplies and battery chargers, DC-AC sine-wave inverters, phase and frequency converters, DC-output UPS systems and complete power systems in 19" and 23" racks since 1982. Custom or standard. ABSOPULSE is a BABT-approved Facility.



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