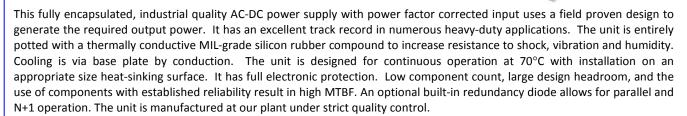
300W, Encapsulated AC-DC Power Supply with PFC-Input for Heavy Duty Applications PPF 300-P400 Series

- Field proven rugged design
- Conduction cooling
- Fully encapsulated
- Full electronic protection
- N+1 redundancy available



SPECIFICATIONS

Input Voltage

Universal 95-264Vac 47 - 63Hz Power Factor is min.0.97 at full load for the entire input range. Meets EN61000-3-2

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 EN60950-1 and related national standards

EMI

EN55022 Class A with margins

Switching Frequency

50-150KHz Boost section (dependent on the load) 67kHz ±3kHz for the (half bridge) DC/DC section

Hold-Up Time

Min. 10ms at any input for 5% drop in output voltage

Output Voltage/Current

12Vdc/25A, 24Vdc/13A, 36Vdc/8.3A, 48Vdc/6.2A or 72Vdc/4.2A standard. Consult factory for other voltages.

Redundancy Diode

None Available as an option

Line/Load Regulation

±1% combined from zero load to full load (without redundancy diode)

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

Output is voltage dependent. Typically 80% at full load

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 base plate to customer heatsink or chassis

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

MTBF

150,000 hours @ 45°C Demonstrated MTBF is significantly higher

Indicators

None

Control Input

None

Alarm output

None

Available on custom versions

Dimensions

P400: 131 x 66 x 232 mm (5.2" x 2.6" x 9.2") including terminal block and flanges Mounting holes are clear

Weight

2.2 kg (4.85 lbs)

Connections

9 pole barrier type terminal block, 3/8" spacing

RoHS Compliance

Compliant

Warranty

Two years subject to application within good engineering practice

Terminal Pin-Out

AC INPUT			OPTIONAL ALARM		DC OUTPUT			
PH ~	2 =	GND ÷	FAIL	сом	-	-	+	+
1	2	3	4	5	6	7	8	9

Enhancements to these general specifications and customizing can be accommodated upon request. Specifications are subject to change.

Designer and manufacturer of quality ac-dc power supplies and battery chargers, converters, inverters, dc-output UPS systems, and complete rack mount systems in 19" or 23" racks. Custom or standard. ABSOPULSE is a BABT-approved Facility.



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