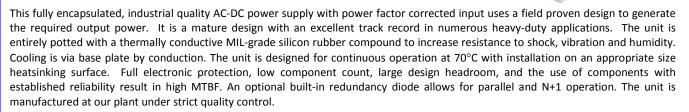
# 400W, Encapsulated AC-DC Power Supply with PFC-Input for Heavy Duty Applications PPF 400-P400 Series

- 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) 67 kHz ±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/30A, 24Vdc/17A, 36Vdc/12A, 48Vdc/9A or 72Vdc/6A standard. Consult factory for other voltages.

#### **Redundancy Diode**

None Available as an 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

Min. 80% at full load

# Operating Temperature Range

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

# Temperature Drift

0.03% per  $^{\circ}$ 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

140,000 hours @ 45 ° C Demonstrated MTBF is significantly higher

# Indicators

None

# **Control Input**

None

#### Alarm output

None on standard version

#### Dimensions

P400:  $131 \times 76 \times 232 \text{ mm}$  (5.2"  $\times 3$ "  $\times 9.2$ ") 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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