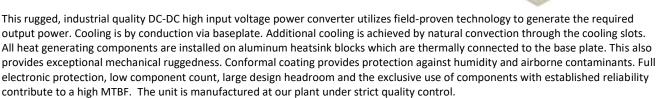
600Vdc Input, 50W Rugged Industrial Quality DC-DC Converter with Wide Input Range HVI 50-F1P Series

- Rugged, industrial quality
- High DC-input voltage
- Wide DC-input voltage range
- Field-proven design
- Conduction/convection cooled (no fans)
- Full electronic protection



r plant under strict SPECIFICATIONS

Input Voltage

600Vdc nominal 450V- 800V operating range Wider input range on request

Input Protection

Inrush current limiting Varistor Reverse polarity protection Internal safety fuse Lower voltage than the specified minimum input will not damage the unit

Isolation

3000Vdc input to chassis 4300Vdc input to output 5600Vdc type test 700Vdc output to chassis

Standards

Designed to meet EN62368-1 and corresponding standards

EMI

EN55032 Class A with margins

Switching Frequency

47kHz ± 3kHz

Output Voltage

12V, 24V or 48Vdc Output is floating; either terminal can be grounded Other outputs on request

Redundancy Diode

None

Available as option

Line/Load Regulation

±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 0.2% rms or 1% pp of the output voltage (20MHz BW)

Output Overload Protection

Rectangular current limiting with hiccup type short-circuit protection

Output Over-voltage Protection

Transzorb across the output

Efficiency

Typically 80% at full load

Operating Temperature Range

0°C to 50°C cold plate temperature for full specification without derating Extended temperature ranges available

Temperature Drift

0.03% per °C over operating temperature range

Cooling

Conduction to customer heatsink or chassis and natural convection

Environmental Protection

Basic ruggedizing Conformal coating

Shock/Vibration

IEC61373 Cat 1 A&B

Humidity

5 – 95%, non-condensing

MTBF

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

Indicators

Green "Output ON" LED visible through cooling slots

Control Input

None

Alarm Outputs

None.

Package/Dimensions (W x H x L)

113 x 51 x 198 mm 4.45" x 2" x 7.8" includes mounting flanges/baseplate, excludes connectors. Mounting holes are clear.

Weight

0.8 kg (1.8lb)

Connections

Input: 2-pole Phoenix connector FRONT 4-V-7.62 Output: 3-pole Phoenix connector FRONT 4-V-7.62

RoHS Compliance

Compliant

Warranty

Two years subject to application within good engineering practice

Terminal Block Pin-out

24VDC OUTPUT			<i>V//////</i>		DC INPUT	
+	_	GND ÷	<i>\\\\\\</i>	+		
1	2	3	<i>\/////</i>	4		5

Please note that ABSOPULSE power supplies are designed and built to customer specifications. The specifications on this data sheet are generic and vary depending on input/output configuration and other customer requirements. Generic specifications are subject to change.

Designer and manufacturer of quality ac-dc power supplies and battery chargers, converters, inverters, dc-output UPS systems, complete rack mount systems and DC-input fluorescent lamp inverters since 1982. Custom or standard. ABSOPULSE is a BABT-approved Facility.



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