

3-phase, 400V or 480V Input, 1000W Industrial Quality Power Supply HTP 1K-F6W



- Rugged industrial quality
- 3-Phase input
- Cooling by internal fans
- Full electronic protection
- Field-proven design topology

This rugged, industrial quality AC-DC power converter with 3-phase input generates the required output power. The design is based on field proven topology which has a track record in numerous applications. The unit is built on a single PCB. High quality built-in fans provide sufficient airflow for operation without de-rating within the specified temperature range. The fans draw air into the unit. All heat generating components are installed on aluminum heatsink blocks which are thermally connected to the base plate. This ensures exceptional mechanical ruggedness. Conformal coating provides protection against humidity and airborne contaminants. Full electronic protection, low component count, large design headroom, and the exclusive use of components with established reliability contribute to a high MTBF. The unit is manufactured at our plant under strict quality control. Other models with higher and lower output power are also available.

SPECIFICATIONS

Input Voltage

400Vac, 3-phase (360-440V)
480Vac, 3-phase (430-530V)
47-63Hz
Other input voltages on request

Input Protection

Inrush current limiting
Varistors
Internal safety fuses
Lower voltage than the specified minimum input will not damage the unit

Isolation

3000Vdc input to chassis
4300Vdc input to output
5600Vdc type test
1000Vdc output to chassis

Standards

Designed to meet EN60950-1 and related standards

EMI

EN55022 Class A with margins

Switching Frequency

55kHz \pm 3kHz

Output Voltage

24V, 48V, or 125Vdc.
Other voltages upon request
Output is floating; either terminal can be grounded

Redundancy Diode

Not installed
Available on request

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 0.2% rms or 1% peak-to-peak of the output voltage (20MHz BW)

Output Overload Protection

Rectangular current limiting with short-circuit protection
Thermal shutdown in case of insufficient cooling (self-resetting)

Output Overvoltage Protection

Second regulator loop completely stable and independent of the main regulator loop

Efficiency

Min 80% at full load depending on input/output configuration

Operating Temperature Range

0°C to 50°C for full specification
Wider range available as option

Temperature Drift

0.03% per °C over operating temperature range

Cooling

By high quality built-in fans and by conduction by installing unit on heat-sinking surface (chassis or cabinet wall)

Environmental Protection

Basic ruggedizing
Conformal coating

Shock/Vibration

IEC 61373 Cat 1 A&B

Humidity

5 - 95% non-condensing

MTBF

130,000 hours @ 45 °C (fans excluded)
Demonstrated MTBF is significantly higher.

Indicators

Output ON LED visible through the cooling slots

Control Input

None on standard version
Available as option

Alarm Outputs

Not installed
Available as option

Package/Dimensions (W x H x D)

F6W: 254 x 65 x 349 mm
10" x 2.6" x 13.75" including connectors and flanges

Weight

Approx. 3.4 kg (7.5lb)

Connections

Input: 3-pole terminal block with 1/2" spacing

Output: 12-pole terminal block with 3/8" spacing

RoHS Compliance

Compliant

Warranty

Two years subject to application within good engineering practice

Terminal block Pin-Out

OUTPUT											
NOT USED	NOT USED	+	+	-	-	NOT USED	NOT USED	NOT USED	GND		N
1	2	3	4	5	6	7	8	9	10	11	12

INPUT						
	PH		PH		PH	
1	2	3	4	5	6	7

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

Designer and manufacturer of quality converters, inverters, 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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