3-phase, 400V or 480V Input, 300W Industrial Quality Power Supply
HTP 300-FX

- Rugged industrial quality
- 3-Phase input
- Cooling by conduction/convection
- Full electronic protection
- Field-proven design topology

This rugged, industrial quality ac/dc power supply series with 3-phase input generates up to 300W output power, depending on output voltage required. It utilizes a field proven HTP 500 design topology with a track record in numerous applications. Cooling is by conduction via baseplate. Additional cooling is achieved by natural convection through the cooling slots. 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
Standard inputs are:
400Vac, 3-phase (360-440V)
480Vac, 3-phase (430-530V)
47-63Hz
Other input voltages on request

Input Protection
Inrush current limiting
Varistor
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
1000Vdc output to chassis

Standards
Designed to meet EN60950-1 and related standards

EMI
EN55022 Class A with margins

Switching Frequency
55kHz +/- 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
±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
Conduction via base plate and natural air convection

Environmental Protection
Basic ruggedizing
Conformal coating
Heavy ruggedizing available as option

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)
FX: 153 x 67 x 358 mm
(6" x 2.7" x 14.2") including terminal block and flanges
Mounting holes are clear

Weight
Approx. 2.2 kg (4.9 lb)

Connections
12-pole barrier type terminal block with 3/8" spacing for all connections. Common terminals for load and battery.

RoHS Compliance
Compliant

Warranty
Two years subject to application within good engineering practice

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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