

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



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