

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



- 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 with 3-phase input generates up to 300W output power, depending on output voltage required. The unit utilizes 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. All heat generating components are installed on aluminum heatsink blocks which are thermally connected to the base plate. This also 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.

SPECIFICATIONS

<p>Input Voltage Standard inputs are: 400Vac, 3-phase (360-440V) 480Vac, 3-phase (430-530V) 47-63Hz Other input voltages on request</p> <p>Input Protection Inrush current limiting Varistor Internal safety fuse Lower voltage than the specified minimum input will not damage the unit</p> <p>Isolation 3000Vdc input to chassis 4300Vdc input to output 5600Vdc type test 1000Vdc output to chassis</p> <p>Standards Designed to meet EN60950-1 and related standards</p> <p>EMI EN55032 Class A with margins</p> <p>Switching Frequency 55kHz \pm 3kHz</p>	<p>Output Voltage 24V, 48V, or 125Vdc. Other voltages upon request Output is floating; either terminal can be grounded</p> <p>Redundancy Diode Not installed Available on request</p> <p>Line/Load Regulation \pm1% combined from zero load to full load</p> <p>Dynamic Response Max 5% voltage deviation for 10% to 50% load step, with better than 1msec recovery time</p> <p>Output Ripple/Noise Better than 0.2% rms or 1% peak-to-peak of the output voltage (20MHz BW)</p> <p>Output Overload Protection Rectangular current limiting with short-circuit protection Thermal shutdown in case of insufficient cooling (self-resetting)</p> <p>Output Overvoltage Protection Second regulator loop completely stable and independent of the main regulator loop</p>	<p>Efficiency Min 80% at full load depending on input/output configuration</p> <p>Operating Temperature Range 0°C to 50°C for full specification Wider range available as option</p> <p>Temperature Drift 0.03% per °C over operating temperature range</p> <p>Cooling Conduction via base plate and natural air convection</p> <p>Environmental Protection Basic ruggedizing Conformal coating Heavy ruggedizing available as option</p> <p>Shock/Vibration IEC 61373 Cat 1 A&B</p> <p>Humidity 5 - 95% non-condensing</p> <p>MTBF 130,000 hours @ 45 °C (fans excluded) Demonstrated MTBF is significantly higher.</p>	<p>Indicators Output ON LED visible through the cooling slots</p> <p>Control Input None on standard version Available as option</p> <p>Alarm Outputs Not installed Available as option</p> <p>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</p> <p>Weight Approx. 2.2 kg (4.9 lb)</p> <p>Connections 12-pole barrier type terminal block with 3/8" spacing for all connections. Common terminals for load and battery.</p> <p>RoHS Compliance Compliant</p> <p>Warranty Two years subject to application within good engineering practice</p>
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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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