

150W, Rugged, Industrial Quality AC/DC Power Supply with PFC Input PFC 150-FT Series



- Rugged Industrial quality
- Electronic power factor correction (PFC)
- Conduction/convection cooling
- Single output
- Full electronic protection

The PFC 150 series rugged, industrial quality AC/DC power supply with power factor corrected input uses a field proven design to generate 150W output power. It has an excellent track record in numerous demanding applications. Cooling is via baseplate to a heatsinking surface and by natural convection. The unit has full electronic protection. Low component count, large design headrooms, and the use of components with established reliability result in a high MTBF. It is manufactured at our plant under strict quality control.

SPECIFICATIONS

Input Voltage Universal 90 - 264VAC 47 - 63Hz Other inputs available on request	Output Voltage/Current 12V/12A, 24V/6A or 48V/3A are standard Output is floating; either terminal can be grounded Other outputs available on request	Efficiency Output voltage dependent. Typically 80% at full load	Indicators Output ON LED (green) visible through the cooling slots
Power Factor Min.0.97 at full load for the entire input range. Meets EN61000-3-2	Redundancy Diode Not installed	Operating Temperature Range 0°C to +50°C for full specification Extended temperature range available	Control Input None
Input Protection Inrush current limiting Varistor Internal safety fuse Lower voltage than the specified minimum input will not damage the unit	Line/Load Regulation +/- 1% combined from zero load to full load	Temperature Drift 0.03% per °C over operating temperature range	Alarm Output None
Isolation 2250VDC input to chassis 4300VDC input to output; 8mm spacing 500VDC output to chassis	Dynamic Response Max 5% voltage deviation for 10% to 50% load step, with better than 1msec recovery time	Cooling Conduction to customer heatsink or chassis and natural convection	Package / Dimensions F1: 114 x 51 x 201 mm (4.5" x 2" x 7.9") including terminal block and flanges Mounting holes are clear.
Standards Designed to meet EN 60950 and corresponding UL and CSA standards, but not UL or CSA listed.	Output Ripple/Noise Less than 1% of output voltage peak to peak or 0.2% RMS of the output voltage (20MHz BW)	Environmental Protection Basic ruggedizing Heavy ruggedizing and conformal coating available as an option	Weight 0.8 kg (1.8 lb)
EMI EN55022 Class A minimum	Output Overload Protection Rectangular current limiting with short-circuit protection (no hiccup) Thermal shutdown in case of insufficient cooling (self resetting)	MTBF 150,000 hours @ 45 °C Demonstrated MTBF is significantly higher.	Connections 9 pole screw type terminal block, 3/8" spacing
Switching Frequency 50-150KHz Boost section (dependent on the load) 47KHz +/-2KHz for the DC/DC section	Output Overvoltage Protection Double regulator loop completely stable and independent of main loop	RoHS Compliance Fully compliant	Warranty Two years subject to application within good engineering practice

Enhancements to these general specifications and customizing can be accommodated upon request. Specifications 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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