

## 500W, Rugged, Industrial Quality AC/DC Power Supply with PFC-Input PFC 65F-FT Series



- Electronic power factor correction (PFC)
- Rugged, industrial quality
- Field-proven design
- Full electronic protection
- N+1 redundancy as an option

The PFC 65F series rugged, industrial quality AC/DC power supply with power factor corrected input uses a field proven design to generate 500W output power. It has an excellent track record in numerous heavy-duty applications. Cooling is by built-in fans, with additional conduction via the baseplate. It has full electronic protection. Low component count, large design headroom, and the use of components with established reliability result in a high MTBF. The unit is manufactured at our plant under strict quality control.

### SPECIFICATIONS

<p><b>Input Voltage</b> Universal 95 ... 264Vac 47 - 420Hz</p> <p>Power Factor is min.0.97 at full load for the entire input range. Meets EN61000-3-2</p> <p><b>Input Protection</b> Inrush current limiting Varistor Internal safety fuse Lower voltage than the specified minimum input will not damage the unit</p> <p><b>Isolation</b> 2250VDC input to chassis 4300VDC input to output; 8mm spacing 500VDC output to chassis</p> <p><b>Standards</b> Designed to meet EN 60950 and related standards</p> <p><b>EMI</b> EN55022 Class A with margins</p> <p><b>Switching Frequency</b> 50-150KHz for boost section (dependent on the load) 55 KHz +/-3KHz for the DC/DC (half-bridge) section</p> <p><b>Hold Up Time</b> Min. 10ms at any input for 5% drop in the output voltage</p>	<p><b>Output Voltage/Current</b> 12V/40A, 24V/20A or 48V/10A standard. Consult factory for other voltages</p> <p><b>Redundancy Diode</b> On request</p> <p><b>Line/Load Regulation</b> +/- 1% combined from zero load to full load</p> <p><b>Dynamic Response</b> Max 5% voltage deviation for 10% to 50% load step, with better than 1msec recovery time</p> <p><b>Output Ripple / Noise</b> Less than 1% peak-to-peak or 0.2% RMS of the output voltage (20MHZ BW)</p> <p><b>Output Overload Protection</b> Rectangular current limiting with short-circuit protection (no hiccup) Thermal shutdown in case of insufficient cooling (self resetting)</p> <p><b>Output Over-voltage Protection</b> Second regulator loop. Typically set at 120% of nominal output voltage</p>	<p><b>Efficiency</b> Output voltage dependent . Typically 80% at full load</p> <p><b>Operating Temperature Range</b> 0°C to 50°C cold plate temperature for full specification without derating Extended temperature range available</p> <p><b>Temperature Drift</b> 0.03% per °C over operating temperature range</p> <p><b>Cooling</b> Forced air by two built-in fans and conduction to customer heatsink or chassis</p> <p><b>Environmental Protection</b> Basic ruggedizing Full ruggedizing and conformal coating on request</p> <p><b>Shock/Vibration</b> IEC 61373 Cat 1 A&amp;B</p> <p><b>Humidity</b> 5 - 95% non-condensing</p> <p><b>MTBF</b> 130,000 hours @ 45°C (fans excluded) Demonstrated MTBF is significantly higher</p>	<p><b>Indicators</b> None</p> <p><b>Control Input</b> None</p> <p><b>Alarm Output</b> None on standard version</p> <p><b>Package/Dimensions (W x H x L)</b> FF3: 153 x 64 x 300 mm (6.1" x 2.5" x 11.8") including terminal block, flanges and fans Mounting holes are clear</p> <p><b>Weight</b> 2.3 Kg (5.0 lb)</p> <p><b>Connections</b> 12 pole barrier type terminal block, 3/8" spacing</p> <p><b>RoHS Compliance</b> Fully compliant</p> <p><b>Warranty</b> Two years subject to application within good engineering practice</p>
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**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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