

750W, Rugged, Industrial Quality AC/DC Power Supply with PFC-Input PFC 319F-FT Series



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

The PFC 319F Series rugged, industrial quality AC/DC power supply with power factor corrected input uses a field proven design to generate up to 750W 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>Input Voltage Universal 90 ... 264VAC 47 - 63Hz</p> <p>Power Factor is min.0.97 at full load for the entire input range. Meets EN61000-3-2</p>	<p>Output Voltage/Current 24V/31A, 48V/16A or 125V/6A are standard. Consult factory for other voltages</p>	<p>Efficiency Output voltage dependent. Typically 80% at full load</p>	<p>Indicators None</p>
<p>Input Protection Inrush current limiting Varistor Internal safety fuse Lower voltage than the specified min. input will not damage the unit</p>	<p>Redundancy Diode Optional</p>	<p>Operating Temperature Range 0°C to 50°C cold plate temperature for full specification without derating Extended temperature range available</p>	<p>Alarm Output Optional</p>
<p>Isolation 2250VDC input to chassis 4300VDC input to output; 8mm spacing 500VDC output to chassis</p>	<p>Line/Load Regulation +/- 1% combined from zero load to full load</p>	<p>Temperature Drift 0.03% per °C over operating temperature range</p>	<p>Dimensions FF4: 155 x 64 x 353 mm (6.1" x 2.5" x 13.9") including terminal block, flanges and fans Mounting holes are clear</p>
<p>Standards Designed to meet EN 60950 and related standards</p>	<p>Dynamic Response Max 5% voltage deviation for 10% to 50% load step, with better than 1msec recovery time</p>	<p>Cooling By built-in fans</p>	<p>Weight 2.5 kg (5.5 lb)</p>
<p>EMI EN55022 Class A as minimum</p>	<p>Output Ripple / Noise Less than 1% peak-to-peak or 0.2% RMS of the output voltage (20MHz BW)</p>	<p>Environmental Protection Basic ruggedizing Full ruggedizing and conformal coating on request</p>	<p>Connections 12-pole barrier type terminal block with 3/8" spacing</p>
<p>Switching Frequency 50-150KHz Boost section (dependent on the load) 55 KHz +/-3KHz for the DC/DC (half-bridge) section</p>	<p>Output Overload Protection Rectangular current limiting with short-circuit protection (no hiccup) Thermal shutdown in case of insufficient cooling (self resetting)</p>	<p>Shock/Vibration IEC 61373 Cat 1 A&B</p>	<p>RoHS Compliance Fully compliant</p>
<p>Hold Up Time Min. 10ms at any input for 5% drop in the output voltage</p>	<p>Output Over-voltage Protection Second regulator loop. Typically set at 120% of nominal output voltage</p>	<p>Humidity 5 - 95% non-condensing</p>	<p>Warranty Two years subject to application within good engineering practice</p>
		<p>MTBF 130,000 hours @ 45°C (fans excluded) Demonstrated MTBF is significantly higher</p>	

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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