

450W, Rugged, Industrial Quality AC/DC Power Supply with PFC-Input PFC 319-FT Series

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



The PFC 319 Series industrial quality AC/DC power supply with power factor corrected input uses a field proven design to generate 450W output power. It has an excellent track record in numerous applications. Cooling is via base plate to a heat-sinking surface and by natural convection. 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. Fan cooled versions are also available for higher power rating.

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>Input Protection Inrush current limiting Varistor Internal safety fuse Lower voltage than the specified min. input will not damage the unit</p> <p>Isolation 2250VDC input to chassis 4300VDC input to output; 8mm spacing 500VDC output to chassis</p> <p>Standards Designed to meet EN 60950 and corresponding UL and CSA standards</p> <p>EMI EN55022 Class A as minimum</p> <p>Switching Frequency 50-150KHz Boost section (dependent on the load) 55 KHz +/-3KHz for the DC/DC (half-bridge) section</p> <p>Hold Up Time Min. 10ms at any input for 5% drop in the output voltage</p>	<p>Output Voltage/Current 12Vdc/37.5A, 24Vdc/18.7A, 48Vdc/9.4A, 54Vdc/8.3A or 125Vdc/3.6A are standard. Consult factory for other voltages</p> <p>Redundancy Diode Optional Not available for 12V version</p> <p>Line/Load Regulation +/- 1% 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 Less than 1% peak-to-peak or 0.2% RMS of the output voltage (20MHz BW)</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>Output Over-voltage Protection Second regulator loop. Typically set at 120% of nominal output voltage</p>	<p>Efficiency Output voltage dependent . Typically 80% at full load</p> <p>Operating Temperature Range 0 to+50 °C for full specification, Extended temp. range available</p> <p>Temperature Drift 0.03% per °C over operating temperature range</p> <p>Cooling Conduction to customer heatsink or chassis and natural convection</p> <p>Environmental Protection Basic ruggedizing Full ruggedizing and conformal coating on request</p> <p>Shock/Vibration IEC 61373 Cat 1 A&B</p> <p>Humidity 5 - 95% non-condensing</p> <p>MTBF 150,000 hours @ 45 °C Demonstrated MTBF is significantly higher</p>	<p>Indicators None</p> <p>Alarm Output Optional</p> <p>Dimensions F4: 130 x 62 x 353 mm (5.1x 2.43" x 13.9") including terminal block and flanges Mounting holes are clear.</p> <p>Weight 2.2 kg (4.4 lbs)</p> <p>Connections 12 pole barrier type terminal block with 3/8" spacing</p> <p>RoHS Compliance Fully compliant</p> <p>Warranty 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 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 ABBT-approved Facility.



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