

1500W Rugged, Industrial Quality Power Supply with PFC-Input in 5" X 5" X 12.5" Package PFC 1500 Series



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

This rugged, industrial quality AC/DC power supply with PFC input delivers up to 1500W output power. It is based on design topology that has an excellent track record in numerous heavy-duty applications. An optional built-in redundancy diode in each module allows for parallel connection and N+1 redundant operation. Cooling is by a high quality internal fan, which provides sufficient airflow for operation at the specified temperature without de-rating. Full electronic protection, low component count, large design headroom, and the use of components with established reliability result in a high MTBF. The chassis has four M6 PEM nuts for mounting on the under-surface. The unit is manufactured at our plant under strict quality control.

SPECIFICATIONS

<p>Input Voltage 95-264Vac (Universal) 47... 63Hz Input Current: 18Arms max. Power Factor is better than 0.97 at full load for the entire input range. Meets EN61000-3-2 and EN61000-3-12</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 EN60950-1 and related standards</p> <p>EMI EN55022 Class A with margins</p> <p>Switching Frequency 100kHz PFC input section 55kHz \pm3kHz output section</p> <p>Hold Up Time Min. 10ms at any input for 5% drop in the output voltage</p>	<p>Output Voltage/Current 12Vdc/120A, 24Vdc/60A, 28Vdc/53A, 48Vdc/30A, 54Vdc/27A or 125Vdc/12A Output is floating, either terminal can be grounded Maximum output power 1500W Other outputs available on request</p> <p>Redundancy Diode None. Available on request Not available for 12V version</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 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 completely stable and independent of the main regulator loop.</p>	<p>Efficiency 80% - 84% at full load, depending on output voltage</p> <p>Operating Temperature Range 0°C to +50°C for full specification with proper cooling Extended temperature ranges available on request</p> <p>Temperature Drift 0.03% per °C over operating temperature range</p> <p>Cooling Forced air by high quality built-in fan and conduction to customer heat-sink or chassis</p> <p>Environmental Protection Basic ruggedizing Heavy ruggedizing and conformal coating available on request</p> <p>Shock/Vibration IEC 61373 Cat 1 A&B</p> <p>Humidity 5 - 95% non-condensing</p> <p>MTBF 120,000 hours @ 45 °C Demonstrated MTBF is significantly higher. Fans excluded</p>	<p>Indicators Diagnostic Output ON LED visible through the rear cooling slots</p> <p>Control Input None</p> <p>Alarm Output None Available on request</p> <p>Package/Dimensions (W x H x D) U5512: 127 x 127 x 316mm (5" x 5" x 12.5") including terminal blocks and M6 grounding stud Four M6 PEM nuts for mounting on the under-surface</p> <p>Weight 5.2 kg (11.5 lbs)</p> <p>Connections Terminal block for input and output M6 stud for chassis GND</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 BABT-approved Facility.



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