

150W, Rugged AC/DC Industrial Power Supply with Universal Input

MIW 150 Series



- Rugged industrial quality
- Single output
- Convection cooled
- Full electronic protection
- Field proven design
- N+1 redundancy available

The MIW 150 Series rugged, AC/DC industrial quality power supply uses a field-proven technology to deliver 150W output power. It is a mature design with a track record in numerous applications. Cooling is by conduction via baseplate to a heatsinking surface and by natural convection for the stand-alone version. The unit has full electronic protection. Low component count, large design headroom, and the use of components with established reliability result in high MTBF. Additional ruggedizing and conformal coating are available for operation in extreme environments. An optional built-in redundancy diode allows for parallel and N+1 operation. The MIW 150 is manufactured at our plant under strict quality control.

SPECIFICATIONS

<p>Input Voltage 95V to 264Vac 47 - 420Hz DC-input also available. Please consult factory.</p> <p>Input Protection Inrush current limiting Varistor Internal safety fuse Lower voltage than the specified minimum 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 a minimum</p> <p>Switching Frequency 47 kHz +/-2kHz</p> <p>Hold Up Time Minimum 5ms at full load for 5% drop of output voltage at 120Vac and higher input</p>	<p>Output Voltage/Current 12V/12A, 24V/6A; 36V/4.1A; 48V/3A; 72V/2A or 125V/1.2A are standard. Consult factory for other voltages</p> <p>Redundancy Diode None. Built-in redundancy diode available as option.</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% of output voltage peak to peak or 0.2% RMS of the output voltage (20MHz BW)</p> <p>Output Overload Protection Rectangular current limiting with hiccup mode short-circuit protection on both outputs Thermal shutdown in case of insufficient cooling (self resetting)</p> <p>Output Overvoltage Protection Double regulator loop completely stable and independent of main loop</p>	<p>Efficiency Output voltage dependent. Typically 80% at full load</p> <p>Operating Temperature Range 0 to 50°C for full specification installed on heat-sinking surface with good air flow Extended temperature ranges available</p> <p>Temperature Drift 0.03% per °C over operating temperature range</p> <p>Cooling <u>Stand alone version:</u> conduction via base plate and convection <u>Plug-in version:</u> convection only</p> <p>Environmental Protection Basic ruggedizing Full ruggedizing and conformal coating available as an option</p> <p>Shock/Vibration IEC 61373 Cat 1 A&B</p> <p>Humidity 5 – 95% non-condensing</p> <p>MTBF 160,000 hours @ 45 °C Demonstrated MTBF is significantly higher</p>	<p>Indicators None on standard version</p> <p>Control Input None</p> <p>Alarm Output None on standard version Available as option</p> <p>Packaging/Connections: <u>Open PCB version:</u> PCB size 4" x 6.3" (100mm x 160mm) Connector: H15 DIN or barrier-type terminal block Weight: 0.384 kg (0.85 lb)</p> <p><u>Enclosed case version (E1):</u> 114 x 51 x 201 mm (W x H x L) (4.5" x 2" x 7.9") including terminal block and flanges Connector: barrier-type terminal block Weight: 0.8 kg (1.8 lb)</p> <p><u>Plug-in (Eurocard) Module (E1):</u> 3U x 160mm x 10HP (H x D x W) Connector: H15 DIN</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 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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