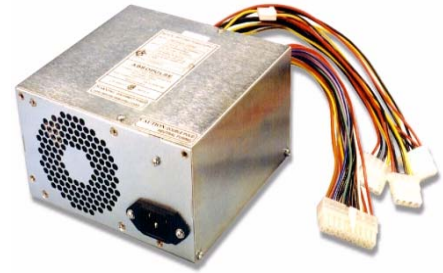


## 180W, Rugged Power Supply for Medical Applications MPS 520 Series

- Certified for medical applications CSA 601.1
- Leakage current less than 200µA
- Made in North America
- 3.3V output for NLX applications
- Fully enclosed with internal fan
- Auto-ranging input
- Fully protected



The MPS 520 Series rugged medical grade AC/DC power supply uses field-proven topology to generate 180W output power. It is a mature design with a track record in various applications. This power supply is in mini AT format and is fully compatible with industry standard power supplies for personal computers and associated applications. Electrical and mechanical design enhancements have been incorporated to meet the specific needs of the medical industry as well as the stringent requirements of North American and European Medical standards. The MPS 520 is fully compatible with NLX platform. It is cooled by an internal fan and is rated for operation over a 0°C to 50°C temperature range without de-rating. Low component count and the use of components with established reliability results in a high MTBF. The unit is manufactured at our plant under strict quality control.

### SPECIFICATIONS

<p><b>Input Voltage</b> 115/230Vac +/- 15%, 47 - 63Hz, Autoranging Input current 3.7A max</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 5660VDC input to output; 8mm spacing Output is connected to GND inside the chassis</p> <p><b>Approvals</b> CAN/CSA-C22.2 No. 601.1 UL 2601, CAN/CSA-C22.2 No 950- 95, UL 1950 certified. CSA, NRTL/C safety marking</p> <p><b>EMI</b> EN55022 Class B</p> <p><b>Switching Frequency</b> 100KHz +/-10KHz</p>	<p><b>Hold Up Time</b> Minimum 15ms at full load range for all outputs</p> <p><b>Output Voltage/Current</b> +5V/20A, -5V/0.3A +12V/3.5A, -12V/0.3A, +3.3V/10A, +5V (SB)/0.75A</p> <p><b>Redundancy Diode</b> None</p> <p><b>Line Regulation</b> +/- 1% over full input range</p> <p><b>Load Regulation</b> +5V output: +/-2% +12V output: +/-6% +3.3V output: +/-2% -12V output: +/-1% -5V output: +/-1% +5VSB output: +/-1%</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% of output voltage peak to peak or 0.2% RMS of the output voltage (20MHZ BW)</p> <p><b>Leakage Current</b> Less than 200µA (lower than CSA-C2.2 No. 601.1 requirements)</p>	<p><b>Output Overload Protection</b> Rectangular current limiting with short-circuit protection by hiccup on the main 5V/20A output and non-hiccup on other outputs Thermal shutdown in case of insufficient cooling (self resetting)</p> <p><b>Output Overvoltage Protection</b> Double regulator loop completely stable and independent of main loop</p> <p><b>Efficiency</b> 72% at full load, depending on output voltage</p> <p><b>Operating Temperature Range</b> 0 to +50°C for full specification with proper cooling</p> <p><b>Temperature Drift</b> 0.03% per °C over operating temperature range</p> <p><b>Cooling</b> Forced air cooling by internal fan 29CFM min.</p> <p><b>Environmental Protection</b> Basic ruggedizing</p> <p><b>MTBF</b> 110,000 hours @ 45 °C Demonstrated MTBF is significantly higher.</p>	<p><b>Indicators</b> None</p> <p><b>Control Input</b> None</p> <p><b>Power On/Off Control</b> Complies with NLX requirements</p> <p><b>Alarm Output</b> None</p> <p><b>Package/Dimensions (W x H x L)</b> 140 x 86 x 151 mm (5.5" x 3.4" x 5.95")</p> <p><b>Weight</b> 1.8kg (4lb)</p> <p><b>Connections</b> AC input receptacle EAC 309 or IEC 60320 C16 Main operating power connector 20- pole (female) AMP (Qty 1) Peripheral and floppy connector 4-pin (female) AMP or MOLEX (Qty 4) Drive-A connector 4-pin (female) MASCOR or AMP</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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