**PWS1505 AC SOURCE POWER SUPPLIES**

The PWS1505 Power Supply provides up to 1500 watts continuous and 1800 watts intermittent to power one or more loads from a 110 or 220 VAC source. Two positive and two negative output connections are provided for easy connection to multiple devices. The recently updated single board design incorporates state of the art switch-mode technology for unmatched efficiency and ultra-quiet operation. Multiple stages of filtering reduce radiated and conducted noise to MIL461 levels.

Safety features include over-temperature shutdown, current limiting, short circuit protection with automatic recovery, input under voltage shutdown and output over-voltage protection. Extra features include visual indicators for low input voltage, overload and over-temperature, dry contact output fail output and remote control connection.

**Available models**

**Input**

110V & 220V

**Output**

12V, 24V, 32V, 48V, 72V (rail)

**Applications**

- Marine
- Transportation
- Industrial
# PWS1505 | AC SOURCE POWER SUPPLIES

## INPUT

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Input Volts Nominal</td>
<td>110 and 220 VAC (auto switching)</td>
</tr>
<tr>
<td>Input Volts Actual</td>
<td>90-140 and 180-280 VAC</td>
</tr>
<tr>
<td>Input Amps</td>
<td>20 maximum (at 90 VAC in)</td>
</tr>
<tr>
<td>Input Fuse</td>
<td>25 A Slow Blow Part # MDA25A</td>
</tr>
<tr>
<td>Input Frequency</td>
<td>45 - 405 Hz</td>
</tr>
<tr>
<td>Noise on Input</td>
<td>&lt; 50 mV</td>
</tr>
</tbody>
</table>

## OUTPUT

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Output Volts Nominal VDC</td>
<td>12, 24, 32, 48, 72(rail)</td>
</tr>
<tr>
<td>Output Volts Actual</td>
<td>13.6, 27.2, 36.3, 54.4, 72.6</td>
</tr>
<tr>
<td>Output Adjust</td>
<td>+/- 0.5 V, +/- 1.0 V, +/- 1.5 V, +/- 2.0 V, +/- 3.0 V</td>
</tr>
<tr>
<td>Continuous Amps</td>
<td>100, 60, 45, 30, 20</td>
</tr>
<tr>
<td>Maximum Amps</td>
<td>120, 72, 54, 36, 20</td>
</tr>
<tr>
<td>Regulation (Line &amp; Load)</td>
<td>+/- 0.5%</td>
</tr>
<tr>
<td>Output Overvoltage Protection Crowbar</td>
<td>17.0 ± 0.05 V, 34.0 ± 1.0 V, 45.0 ± 0.5 V, 68.0 ± 2.0 V, 90.0 ± 0.3 V</td>
</tr>
<tr>
<td>Efficiency</td>
<td>&gt; 80% @ Maximum Output</td>
</tr>
</tbody>
</table>

## MECHANICAL

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dimensions</td>
<td>17.4 in / 44.2 cm Long x 8.35 in / 21.2 cm Wide x 4.0 in / 10.2 cm High</td>
</tr>
<tr>
<td>Clearance</td>
<td>1.0 in / 2.5 cm all around</td>
</tr>
<tr>
<td>Weight</td>
<td>18.0 lb / 8.2 kg</td>
</tr>
<tr>
<td>Material and Finish</td>
<td>Marine Grade Black Anodized Aluminum with 18-8 Stainless Fasteners</td>
</tr>
<tr>
<td>Connections</td>
<td>Input - NEMA 5-15 plug with 2.5 m AWG14 cable (approx. length) (North America) or CEE 7/7 2.5 m cable (Europe) Output - Color coded Phoenix VDFK6 terminal blocks, 60 Amp rated</td>
</tr>
</tbody>
</table>

## ENVIRONMENTAL AND SAFETY

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Operating Temperature Range</td>
<td>-25°C to +40°C @ maximum output. Derate Linearly 2.5% per °C from 40°C (Optional -40°C extra wide temperature operation available)</td>
</tr>
<tr>
<td>Humidity</td>
<td>0 - 95% Relative Humidity (non-condensing) with standard conformal coating</td>
</tr>
<tr>
<td>Isolation</td>
<td>Input-Case, Input-Output and Output-Case 1500 VDC</td>
</tr>
<tr>
<td>Audible Noise</td>
<td>40 dB when fans operating</td>
</tr>
<tr>
<td>Typical Service Life</td>
<td>&gt; 10 years (87,600 hrs)</td>
</tr>
<tr>
<td>Warranty</td>
<td>Three years parts and labor</td>
</tr>
<tr>
<td>Safety</td>
<td>Built to meet CSA 22.2.107.1 &amp; UL458</td>
</tr>
</tbody>
</table>

## OPTIONS

- European ROHS compliant (Lead Free Manufactured)
- Open frame (No chassis, just heat sink bars)
- Portable (adds height, Carrying handle, rubber feet)
- Integrated Digital Volt/Ammeter (increases case length 3 inches)
- Heavy duty ruggedization with wide temperature range
- Custom input/output available
- PWS1505M Military model with MIL Connectors, wide temperature and ruggedization
- PWS1505MW Military model with MIL connectors, wide temperature, ruggedization and sealed to IP66

## DIMENSIONS

![Dimensions Diagram]