PS68
Power Supply 48 VDC at 5 Amps

The PS68 is a high reliability, universal AC input/full range power supply with overload, overvoltage and short circuit protection. It provides 48 VDC output at 5 Amps from -40° to 158°F (-40° to 70°C). The PS68 can be mounted indoors or mounted outdoors in a weatherproof enclosure. It is DIN Rail mountable with TS35/7.5 or TS35/15. The input AC and output DC wiring are connected to a terminal strip. Unit dimensions are 4.39 inches (111.3mm) L x 3.27 inches (83mm) W x 4.92 inches (125mm) H. The unit weighs 2.0 pounds (908g).

Specifications:

**Input**

- AC input: 90-132 / 180-246 VAC
- Input frequency: 47-63Hz
- Input Current: 4.0A (115 VAC), 1.55A (230 VAC)
- Inrush current: 30A/115V, 60A/230V
- Earth leakage current: 0.8mA max
- Power Factor: EN61000-3-2, class A
- Input Protection: T6.3A, 250 VAC

**Output**

- Output voltage: 47.0 – 56.0 VDC
- Line regulation: ± 0.5% max
- Load regulation: ± 1% max
- Overload protection: 120-165% constant current
- Overvoltage protection: Output clamps at 120-145% Vnom, auto recovery
- Ripple & Noise: 100mv peak-peak, 20MHz bandwidth
- Start Up Rise time: <150ms
- Hold up time: 25/30ms at 115/230 VAC
- Short Circuit Protection: Power limited, auto recovery

**Environmental**

- Operating temperature & humidity: -40° to 158°F (-40° to 70°C), 95% RH (non condensing)
- Storage temperature & humidity: -40° to 185°F (-40° to 85°C), 95% RH (non condensing)
- Cooling method: Convection with 1 inch (25mm) free space all sides

**EMC & Safety**

- Approvals: UL (C/US), TUV, CE, RoHS compliant
- Safety standards: UL60950-1, EN60950-1, UL508, UL1310 ANSI/ISA 12.12.1
- EMC standards: EN55022 class B, EN61000-3-2, 3, EN61000-4-2, 3, 4, 5, 6, 8, 11
**DC Output**

- **AC Input**

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**DNR240 Connections**

<table>
<thead>
<tr>
<th>Conn</th>
<th>Pin</th>
<th>Designation</th>
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<td>AC Input</td>
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<td>Ground</td>
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<tr>
<td></td>
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<td>Line</td>
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<tr>
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<tr>
<td>DC Output</td>
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<td>DC OK*</td>
</tr>
<tr>
<td></td>
<td>2</td>
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<tr>
<td></td>
<td>6</td>
<td>Negative</td>
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</table>

*DC OK not used*