



PS100™ NEMA TS-2 Cabinet Power Supply



Features

- TS-2 cabinet power supply source
- Regulated 12 VDC and 24 VDC voltages rated at 2.0 Amps
- 12 VAC voltage with 0.25 Amp current capability
- 60 Hz line frequency reference output
- Each voltage output fused and has own LED indicator
- Front panel test points complete with binding posts
- Rack and shelf mounted for modularity and interchangeability
- Compliant with NEMA TS-2-1992

The Peek Traffic TS-2 NEMA PS100 is a rack or shelf mounted power supply unit that provides all regulated DC and AC voltages for all Bus Interface Units (BIU), load switches, and detectors for a TS-2 Type 1 cabinet assembly. Other auxiliary equipment, requiring the same voltages, that may be present within the terminal facilities can also be operated from the PS100 power supply.

The power supply is a requirement of the TS-2 standard for all Type 1 cabinets. Its primary function is to provide the 12 VDC, 24 VDC, 12 VAC outputs and line frequency reference within the TS2 cabinets. The TS-2 Type 2 Controller interface can provide the required 24VDC output from the controller unit, rated at 500 milliamps, rendering the use of a PS100 power supply optional for this type of cabinet assembly.

The construction and design of the unit facilitates ease of access to all major components. The front panel test points, complete with binding posts, and the power supply MS connector are terminated to the power supply circuit board via easy access Molex type edge connectors. The chassis is constructed of anodized aluminum that is finished with an attractive and durable coating.

The flexibility of the Peek Traffic PS100 power supply allows for cabinet expansion, enhances reliability and provides a superior power supply interface with Peek Traffic or other manufacturers' TS-2 cabinets.

Specifications

Characteristic	Description																						
Electrical Outputs	<p>Four outputs listed below meet the electrical requirements as referenced in Section 5.3.5.2 of the NEMA TS-2-1992 Standard.</p> <ul style="list-style-type: none"> • 12 VDC rated at 2 Amps • 24 VDC rated at 2 Amps • 12 VAC rated at 0.25Amps • 60 Hz Timing Reference 																						
Power Supply Inputs and Outputs.....	<p>The power supply connector located on the front panel has a metallic shell which is connected to the chassis ground and mates with an MS3106-18-1SW cable connector or equivalent.</p> <p>Pin Assignments:</p> <table border="1"> <thead> <tr> <th>Pin</th> <th>Function</th> </tr> </thead> <tbody> <tr> <td>A</td> <td>AC Neutral</td> </tr> <tr> <td>B</td> <td>Line Frequency Reference</td> </tr> <tr> <td>C</td> <td>AC Line</td> </tr> <tr> <td>D</td> <td>+12 VDC</td> </tr> <tr> <td>E</td> <td>+24 VDC</td> </tr> <tr> <td>F</td> <td>Reserved</td> </tr> <tr> <td>G</td> <td>Logic Ground</td> </tr> <tr> <td>H</td> <td>Earth Ground</td> </tr> <tr> <td>I</td> <td>12 VAC</td> </tr> <tr> <td>J</td> <td>Reserved</td> </tr> </tbody> </table> <p>Over current protection is provided on the front panel for the AC line power and all output voltages along with LED indicators to indicate the presence of voltage.</p>	Pin	Function	A	AC Neutral	B	Line Frequency Reference	C	AC Line	D	+12 VDC	E	+24 VDC	F	Reserved	G	Logic Ground	H	Earth Ground	I	12 VAC	J	Reserved
Pin	Function																						
A	AC Neutral																						
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J	Reserved																						
Test Points	Binding post test points are provided for all output voltages																						
Dimensions.....	5.125"H x 6.7"W x 7.8"D (130mm x 170mm x 196mm)																						
Temperature Range.....	-30°F to +165°F (-34°C to +74°C)																						
Weight	10.5 pounds (4.76 kg)																						
Power	89 to 135 VAC, 1A																						

Ordering Information

Description	Catalog Information
Cabinet Power Supply Module.....	PS100
Cabinet Power Supply Module with Housing.....	PS101
TS-2 Power Supply Rack Unit.....	6917

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