Model: HPRU1000Q-1-6285
P/N: 94016

**MK119 Line Replaceable Unit (LRU)**

The MK119 LRU power supply is a ruggedly built, modified COTS, modular design, Line Replaceable Unit, used in the MK119 Power Supply System Model 94012. Features include N+1 redundant, hot-swappable and current sharing, with front panel status indicators and designed to meet the stringent requirements of life aboard a US Navy warship.

**Features**

- N+1 redundant
- Hot swappable
- Modular design for user replacement
- Front panel status indicators on front panel

**SPECIFICATIONS**

**INPUT**

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Voltage</td>
<td>120 VAC, +/- 10%, 1 phase, per MIL-STD-1399.</td>
</tr>
<tr>
<td>Frequency</td>
<td>57-63 Hz, per MIL-STD-1399</td>
</tr>
<tr>
<td>PFC Input</td>
<td>.95 minimum</td>
</tr>
<tr>
<td>Harmonic Content</td>
<td>Per MIL-STD-1399</td>
</tr>
</tbody>
</table>

**OUTPUT**

<table>
<thead>
<tr>
<th>Voltage</th>
<th>AMPs Minimum</th>
</tr>
</thead>
<tbody>
<tr>
<td>-12 VDC</td>
<td>5</td>
</tr>
<tr>
<td>+12 VDC</td>
<td>17</td>
</tr>
<tr>
<td>+5 VDC</td>
<td>80</td>
</tr>
<tr>
<td>+28 VDC</td>
<td>4.5</td>
</tr>
</tbody>
</table>

Power rating: 790 watts
Efficiency: 65% minimum (75% typical) @ full load
Ripple: 100 mvolts peak to peak for 5 VDC output, 200 mvolts peak to peak for other voltages measured at 25 MHz bandwidth over temperature range
Remote sense: 0.5 volts compensation per output
Over current protection: 110-120% of full load (auto recovery)
Current sharing: Automatic
Over voltage protection: 105-130% of nominal voltage (non shutdown, auto recovery)
Current limiting: 115% minimum of rated current @ nominal voltage (auto recovery)
Load regulation: 1% maximum (0.5% typical) per output
Line regulation: 0.5% maximum (0.2% typical) per output
STATUS SIGNALS
DC OK
FAN OK
Over Temperature
All signals are open collector/open drain TTL compatible. Fault to cause a logic state low.

PHYSICAL
Dimensions: 1/3 Rack Mount Chassis, (3U) 5 ¼"H x 15"D) with guide pins
Cooling: Internal fans. Intake front and exhaust rear.
Connections:

ENVIRONMENTAL
Operating Temperature 0°C to 45°C
Storage Temperature -40°C to 60°C
Humidity 0% to 95% Non-Condensing

Note: Unit designed to meet MIL-STD-1399 and MIL-STD-461