Silicon carbide (SiC) based High Power Fiber Laser Power Supply (HPFLPS). The design utilizes GE’s 1200V SiC MOSFETs packaged in a 2U rack mountable, liquid cooled chassis. The HPFLPS uses GE’s Digital Controller technologies to compliment the SiC devices, yielding high power density and reduced weight. Advanced thermal management technologies are employed to enable reliable performance on various platforms.

Features:
- Input Voltage (270 & 650 VDC)
- Powers fiber lasers including Q-Switched types
- RS485 serial communications with unique ID
- Current Mode Efficiency >85%
- Voltage Mode Efficiency >89%
- 8 each 60A Current Source outputs, or 4 each 5000W Voltage Source outputs
- Liquid cooled: +18-25°C coolant
- Configurable as Current Source or Voltage Source
- 4 Housekeeping Outputs (28V @ 10A)

Physical: (See ICD 1323000)
- Weight: 25.6kg (56.5 lbs.)
- Dimensions: 19” x 24” x 3.5” (48.3 cm x 61cm x 9cm) (2U per EIA-310)
- Volume: 1596 in³ (26 Liters)
- Connector: Blind Mate Rack Mount or discrete harness
- Mounting: Rack Mountable or Fixed Mount

Environmental:
- Operating Temperature: -45°C to +50°C ambient
- Storage Temperature: -55°C to +70°C
- Coolant: 35/65 EGW; +18C to -25C; < 2 GPM
- Temperature Shock: MIL-STD-810E, Method 503.3
- Shock: MIL-STD-901
- Vibration: MIL-STD-167-1 Type I
- Humidity: Meets exposure to 95% relative humidity

<table>
<thead>
<tr>
<th>P/N</th>
<th>MODE</th>
<th>INPUT VOLTAGE (VDC)</th>
<th>OUTPUT VOLTAGE (VDC)</th>
<th>OUTPUT CURRENT (AMP)</th>
<th>REGULATION (LINE, LOAD)</th>
<th>CURRENT RIPPLE &amp; NOISE (Pk-Pk)</th>
<th>VOLTAGE RIPPLE &amp; NOISE (%)</th>
<th>NOMINAL OUTPUT POWER (W)</th>
<th>MAX OUTPUT POWER (W)</th>
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<td>CURRENT</td>
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