



## GRiD 65W Rugged Power Supply

### Main Features

- 65W
- Input Voltage: 90-264VAC
- Input Frequency: 47-440Hz
- Output Voltage: 12VDC, 24VDC and 28VDC
- Output Current: 5.6A, 2.7A and 2.3A
- 88% Efficient
- Operating Temperature: -40°C to +70°C
- Storage Temperature: -40°C to +80°C
- Environmental Sealing: IP67
- Dimensions: 5.50" x 2.75" x 1.50"
- Weight: 1.13kg (2.50lbs)
- Low EMC and TEMPEST Profile

### Technical Specification

**GRiD**

RUGGED, CONFIGURABLE COMPUTING



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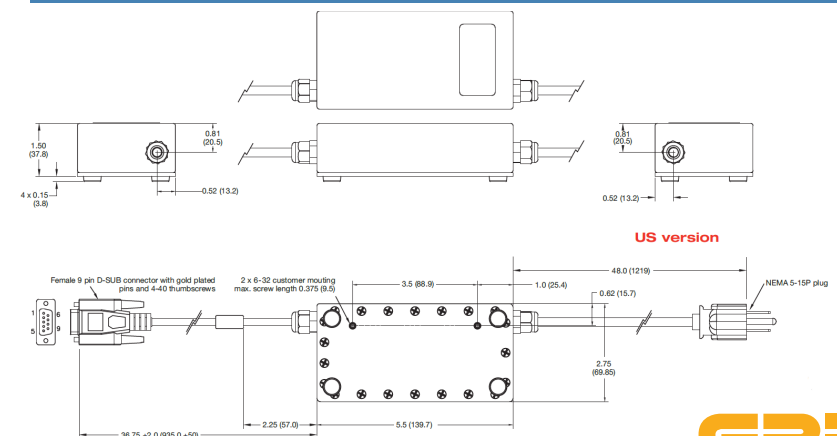
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| Electrical Specification |                                                                                                                                                                                                                                                                                                                                                                                                |
|--------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Power                    | 65W                                                                                                                                                                                                                                                                                                                                                                                            |
| Efficiency               | 88%                                                                                                                                                                                                                                                                                                                                                                                            |
| Protection               | Continuous Trip and Restart (hiccup)<br>Overload Protection 160%<br>Overvoltage Protection 115-140%                                                                                                                                                                                                                                                                                            |
| Input Connector          | UK/US/EU Mains Plug                                                                                                                                                                                                                                                                                                                                                                            |
| Input Voltage            | 90-264VAC                                                                                                                                                                                                                                                                                                                                                                                      |
| Input Frequency          | 47-440Hz                                                                                                                                                                                                                                                                                                                                                                                       |
| Inrush Current           | 60A at 230VAC                                                                                                                                                                                                                                                                                                                                                                                  |
| Power Factor             | EN61000-3-2 Class A                                                                                                                                                                                                                                                                                                                                                                            |
| Leakage Current          | <260µA at 264VAC, 60Hz                                                                                                                                                                                                                                                                                                                                                                         |
| Output Connector         | Customer Configured (D-type, Mil-Spec or Free-ends)                                                                                                                                                                                                                                                                                                                                            |
| Output Voltage           | 12VDC, 24VDC or 28VDC                                                                                                                                                                                                                                                                                                                                                                          |
| Output Current           | 5.4A, 2.7A or 2.3A                                                                                                                                                                                                                                                                                                                                                                             |
| Minimum Load             | No minimum load required                                                                                                                                                                                                                                                                                                                                                                       |
| Total Regulation         | +/- 5%                                                                                                                                                                                                                                                                                                                                                                                         |
| Hold Up Time             | 16ms                                                                                                                                                                                                                                                                                                                                                                                           |
| Ripple and Noise         | 1% Peak to Peak<br>(Measured with 20MHz Bandwidth and 10µF Electrolytic in parallel with 0.1 µF Ceramic Capacitor)                                                                                                                                                                                                                                                                             |
| Electrical               | <ul style="list-style-type: none"> <li>- EN 55032 Class B (FCC Part 15 and CISPR-32)</li> <li>- EN 61000-3-2, Class A</li> <li>- EN 61000-3-3</li> <li>- EN 61000-4-3, Level 3 Perf Criteria A</li> <li>- EN 61000-4-4, Level 3 Perf Criteria A</li> <li>- EN 61000-4-5, Class 3 Perf Criteria A</li> <li>- EN 61000-4-6, Level 3 Perf Criteria A</li> <li>- EN 61000-4-11, Class 3</li> </ul> |

| Mechanical Specification & Military Qualification |                                                                                                                                                                     |
|---------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| EMC Emissions                                     | MIL-STD-461G, Ground Army<br>- CE102<br>- RE102                                                                                                                     |
| EMC Immunity                                      | MIL-STD-461G<br>- CS101<br>- CS114<br>- CS115<br>- CS116<br>- RS103                                                                                                 |
| TEMPEST                                           | NATO SDIP-27 / AMSG                                                                                                                                                 |
| Environmental                                     | MIL-STD-810F<br>- Altitude: 10,000ft (3,048m)<br>- Shock: Method 516 Procedure 1 (40g)<br>- Vibration: Method 514 Procedure 1<br>- Humidity: 5-95% (Non-condensing) |
| Operating Temperature                             | -40°C to +70°C (-40°F to +158°F)                                                                                                                                    |
| Storage Temperature                               | -40°C to +80°C (-40°F to +176°F)                                                                                                                                    |
| Ingress Protection                                | IP67 (includes Sealed EMC Glands)                                                                                                                                   |
| Dimensions (WxDxH)                                | 5.50" x 2.75" x 1.50"                                                                                                                                               |
| Weight                                            | 1.13kg (2.50lbs)                                                                                                                                                    |
| Colour                                            | Black                                                                                                                                                               |



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