



GRiD 100W Rugged Power Supply

Main Features

- 100W
- Input Voltage: 90-264VAC
- Input Frequency: 47-63Hz
- Output Voltage: 12VDC, 24VDC and 28VDC
- Output Current: 8.3A, 4.2A and 3.6A
- Peak Load 130W for 30s
- Operating Temperature: -40°C to +70°C
- Storage Temperature: -40°C to +85°C
- Environmental Sealing: IP67
- Dimensions: 6.29" x 2.95" x 1.55"
- Weight: 2.52lbs
- Low EMC and TEMPEST Profile

Technical Specification

GRiD

RUGGED, CONFIGURABLE COMPUTING



WWW.GRIDUK.COM



GRID-SALES@GRIDUK.COM

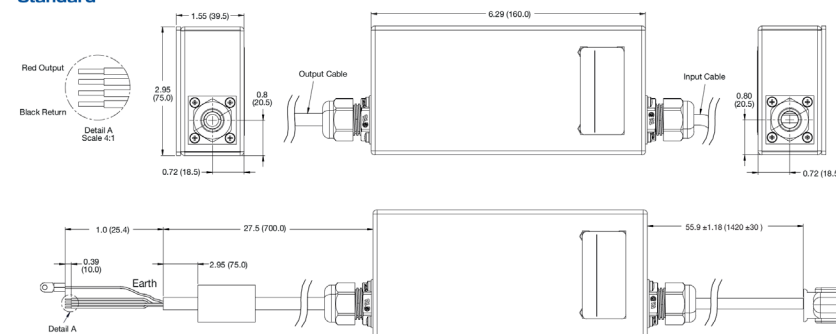


+44 (0) 1628 810 230

Electrical Specification	
Power	100W
Peak Load	130W for 30 seconds
Standby Power	<0.5W
Efficiency	85%
Protection	Trip and Restart (hiccup), Auto-resetting Overload Protection 140-210% for Peak Load Requirement Overvoltage Protection 160%
Input Connector	UK/US/EU Mains Plug
Input Voltage	90-264VAC
Input Frequency	47-63Hz
Inrush Current	60A at 230VAC
Power Factor	EN61000-3-2 Class A
Leakage Current	<750µA at 264VAC, 60Hz
Output Connector	Customer Configured (D-type, Mil-Spec or Free-ends)
Output Voltage	12VDC, 24VDC or 28VDC
Output Current	8.3A, 4.2A or 3.6A
Minimum Load	No minimum load required
Total Regulation	+/- 5%
Hold Up Time	16ms
Ripple and Noise	1% Peak to Peak (Measured with 20MHz Bandwidth and 10µF Electrolytic in parallel with 0.1 µF Ceramic Capacitor)
Electrical	- EN 55032 Class B (FCC Part 15 and CISPR-32) - EN 61000-3-2 (Harmonic Current Emissions) Class A (IEEE 519) - EN 61000-3-3 (Voltage Fluctuations & Flicker) (IEEE 1453) - EN 61000-4-2 (Electrostatic Discharge, ESD) Level 3 - EN 61000-4-3 (Radiated RF Immunity) 10V/m - EN 61000-4-4 (Fast Transient/Burst Immunity) Level 3 - EN 61000-4-5 (Surge Immunity) Class 3 - EN 61000-4-6 (Conducted RF Immunity) 10V - EN 61000-4-11 (Voltage Dips & Interruptions Immunity) Level 3

Mechanical Specification & Military Qualification	
EMC Emissions	MIL-STD-461G, Ground Army - CE102 - RE102
EMC Immunity	MIL-STD-461G - CS101 - CS114 - CS115 - CS116 - RS103
TEMPEST	NATO SDIP-27 / AMSG
Environmental	MIL-STD-810F - Altitude: 16,404ft (5,000m) - Shock: Method 516 Procedure 1 (40g) - Vibration: Method 514 Procedure 1 - Humidity: 5-95% (Non-condensing)
Operating Temperature	-40°C to +70°C (-40°F to +158°F)
Storage Temperature	-40°C to +85°C (-40°F to +185°F)
Ingress Protection	IP67 (includes Sealed EMC Glands)
Dimensions (WxDxH)	6.29" x 2.95" x 1.55"
Weight	2.52lbs (1.14kg)
Colour	Black

Standard



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