19"/2 PWR1123



All in one

The power distribution unit PWR1120 Series offers AC input, 9 DC outputs, and includes a high-performance UPS. In effect, the series combines three power products in one: AC/DC conversion, power distribution, and UPS. The unit is designed in the 19"/2 form factor and is optimized to provide power for complete 19"/2 systems. The unit comes with SNMP functionality as standard, which enables remote monitoring of ports, battery status, temperature, etc. This makes the PWR1120 Series an ideal power solution for mobile systems in demanding environments - even when the electricity goes out.

Small form factor

The MilDef 19"/2 form factor is optimized for reduced size, weight, and power (SWaP) to meet industry and military requirements without sacrificing reliability, ruggedness or performance.

Flexible mounting

The 19"/2 standard enables flexible mounting options for a wide array of integration scenarios. The unit can be mounted in a standard 19" rack, half racks, or directly to a surface and in any angle.

Military-relevant rugged design

MilDef products are designed to operate in extreme environmental conditions and challenging electromagnetic operational scenarios. Operationally proven, MilDef products are actively employed in military operations in over 60 countries.

Guaranteed performance

MilDef products are designed for the long lifecycles of military programs and come with a lifetime support program to ensure your equipment maintains peak performance for many missions to come.

We also guarantee the availability of spare parts for an additional 5 years after product end-of-life.

Features

- SNMP v3 compliant
- 110 VAC to 230 VAC
- UK Plug
- Passively cooled



POWER OUT 1 - POWER OUT 9 (front) 9 connectors which each has:1x POWER OUT

- 1x RS232 Service
- 1x ETH 100BASE-TX

Other Interfaces

SERVICE-E (front)

SERVICE (back)

- 1x Cable gland (back)
- 5x Battery capacity indicator (front)
- 5x Battery load indicator (front)
- 9x Power output indicator (front)
- 1x LOAD Button (front)
- 1x Mute Button (front)
- 1x System Button (front)

Technical Specification

| Audiable warning signal | Audiable warning signal that may be muted Short beep every 10 seconds Two short beeps Constant audible signal Constant audible signal |
|-------------------------|---|
| Blanking | Double-pressing the System button |
| Remote management | SNMP v3 compliant |
| UPS function | Automatically switch to battery power when no AC/DC power is prescent |
| Power capacity | 420 W 490 W peak 10.8 Ah (depending on load and temperature) |
| Power consumption | 15 W (Idle) 30 W (Charging, no load) 530 W (Charging, full load) |
| Power input | 110 VAC to 230 VAC |
| Power input cable | UK Plug |
| Power output | Normal mode: Output Voltage: 28 VDC. Max 20 A Battery mode: Output Voltage: 20-32 VDC. Max 20 A short term, 15 A continuously Battery power is not supported in cold start below -30 °C |
| Chassis material | Aluminum |
| Coating and color | Dupont AE0305-6603120 (RAL6031) |
| Cooling | Passively cooled |
| Dimensions | 220 x 88 x 400 mm (8.7 x 3.5 x 15.8 in) (WxHxD) |

| Earth point | M6 12 mm |
|---|--|
| • | |
| Rack mounting depth | 400 mm (17.4 in) |
| Surface treatment chassis | Chromit-Al |
| Weight | 9.5 kg |
| MTBF | Greater than 25,000 h |
| CE | Compliant |
| Environmental Specificatio | n |
| Functional shock - Operating | MIL-STD-810G, Method 516.6, Procedure I - Functional Shock. Table 516.6-II, Terminal peak sawtooth pulse, Ground equipment 40 g 11 ms |
| High temperature - Operating | MIL-STD-810G, Method 501.5, Procedure II - Operation 55 °C (131 °F) |
| High temperature - Storage | MIL-STD-810G, Method 501.5, Procedure I - Storage 71 °C (160 °F) |
| Humidity | MIL-STD-810G, Method 507.5, Procedure II - Aggravated 95 ± 4 % RH Ten 24 h cycles |
| IP Class (Solid Particle Protection) |) IP Class 6X |
| IP Class (Water) | IP Class X5 |
| Low air pressure - Rapid decompression | MIL-STD-810G, Method 500.5, Procedure III - Rapid decompression 75.2 kPa, corresponding to 2,438 m (8,000 ft) 17 kPa, corresponding to 12,192 m (40,000 ft) |
| Low air pressure - Operating | MIL-STD-810G, method 500.5, Procedure II - Operation/Air Carriage 4,572 m (15,000 ft) |
| Low air pressure - Storage/Air Transport | MIL-STD-810G, method 500.5, Procedure I - Storage/Air Transport. 17 kPa, corresponding to 12,192 m (40,000 ft) |
| Low temperature - Operating | MIL-STD-810G, method 502.5, Procedure II - Operation -40 °C (-40 °F) |
| Low temperature - Storage | MIL-STD-810G, method 502.5, Procedure I - Storage -40 °C (-40 °F) |
| Noise level | Maximum noise level of 40 dB SPL A-weighting at 1 m (3.3 ft) distance |
| Salt fog | MIL-STD-810G Method: 509.5 5 % \pm 1 % (by weight) Two cycles, 24 h wet + 24 h dry / cycle |



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| Temperature shock - Operating | MIL-STD 810G, method 503.5 procedures I - C, - Multi-cycle shocks from constant extreme temperature 55 °C (131 °F) -40 °C (-40 °F) |
|-----------------------------------|---|
| Transit drop, in shipping package | MIL-STD-810G, method 516.6, Procedure IV - Transit Drop. Table 516.6-VI, Transit drop test, < 45.4 kg (100 lbs), < 91 cm (36 inch), Manpacked or man-portable |
| Vibration - Helicopter | MIL-STD-810G. Method 514.6, Procedure I - General vibration, Category 14 - Rotary wing aircraft - helicopter |
| Vibration - Loose Cargo | MIL-STD-810G. Method 514.6, Procedure II - Loose cargo transportation, Category 5 - Truck/ trailer - loose cargo |
| Vibration - Tracked Vehicles | MIL-STD-810G. Method: 514.6, Procedure 1 - General Vibration, Category 20 - Ground vehicles - ground mobile, tracked vehicles |
| Vibration - Wheeled Vehicle | MIL-STD-810G. Method: 514.6 , Procedure 1 - General Vibration, Category 20 - Ground vehicles - ground mobile, wheeled vehicles |

EMC Specification

| EMI conducted CE102 | MIL-STD-461F, Method CE102 BASIC CURVE 220 100 kHz to 10 MHz (Partial compliance) |
|---------------------|---|
| EMI radiated RE102 | MIL-STD-461F Navy Mobile & Army 2 MHz - 18 GHz |
| EMS conducted CS101 | MIL-STD-461F, Method CS101, conducted suceptibility, power leads. CURVE #1 30 Hz to 150 kHz |
| EMS conducted CS114 | MIL-STD-461F Army, Ground 10 kHz - 200 MHz |
| EMS conducted CS115 | MIL-STD-461F Conducted susceptibility, bulk cable injection, impulse excitation |
| EMS conducted CS116 | MIL-STD-461F 10 kHz - 100 MHz |
| EMS radiated RS103 | MIL-STD-461F Army 2 MHz - 1 GHz |
| ESD | EN61000-4-2:2009 Level 3 EN55024:1998 Performance criteria B + A1:2001 + A2:2003 |

