19"/2 PWR2124

All in one

The power distribution unit PWR2124 offers a high performance UPS with DC input and output. 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 the remote monitoring of ports, battery status, temperature, etc. This makes the PWR2124 an ideal power solution for tactical systems in demanding environments - even when the electricity fails.

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

- 20-32 VDC in
- Four DC outputs
- SNMP remote access
- UPS
- LED indicators on front

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Connector Interfaces

DC IN (back)	• 1x Power
POWER OUT 1-4 (front)	4 connectors which each has: • 1x Power
SERVICE (back)	• 1x RS232 Service
SERVICE-E (front)	• 1x 100BASE-TX

Other Interfaces

5x Battery capacity indicator (front)

5x Battery load indicator (front)

1x Load button (front)

1x Mute button (front)

1x System button (front)

Technical Specification

Audiable warning signal	The unit shall be able to provide a audiable warning signal that may be muted
Blanking	Double-pressing the System button
Current limiter	8 A
Remote management	SNMP v3 compliant
MIL-STD-1275D	5.3.2.2 5.3.2.3 5.3.2.4
Power capacity	192 W 250 W peak 4 Ah (depending on load and temperature)
Power consumption	15 W (Idle) 30 W (Charging, no load) 250 W (Charging, full load)
Power input	20-32 VDC
Power output	Normal mode: Output voltage: 19-32 DC Output current: max 8 A Battery mode: Output Voltage: 19-32 VDC Output current: max 8 A
Chassis material	Aluminum
Coating and color	AE0305-6603120 Axalta (RAL 6031)
Cooling	Passively cooled
Dimensions width and height	220 x 43.4 mm (8.66 x 1.71 in) (WxH)
Earth point	M6 12 mm
Rack mounting depth	400 mm (15.8 in)
Surface treatment chassis	Chromit-Al
Weight	5.6 kg (12.6 lbs)
MTBF	> 25,000 h
CE	Compliant

Environmental Specification

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 - Operational	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 % ± 1 % (by weight) Two cycles, 24 h wet + 24 h dry / cycle

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)
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 vehicles	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 BASIC CURVE 220
EMI radiated RE102	MIL-STD-461F, Method RE102, Radiated emissions, electric field Navy Mobile & Army 2 MHz - 18 GHz
EMS conducted CS101	MIL-STD-461F, Method CS101, Conducted susceptibility, power leads CURVE #1 30 Hz - 150 kHz
EMS conducted CS114	MIL-STD-461F, Method CS114, Conducted bulk susceptibility Army, Ground 10 kHz - 200 MHz
EMS conducted CS115	MIL-STD-461F, Method CS115, Conducted susceptibility, bulk cable injection, impulse excitation
EMS conducted CS116	MIL-STD-461F, Method CS116, Conducted susceptibility, damped sinusoidal transients, cables and power leads 10 kHz - 100 MHz
EMS radiated RS103	MIL-STD-461F, Method RS103, Radiated susceptibility, electric field Army 2 MHz - 1 GHz