

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

Connector Interfaces

DC IN (back)	• 1x Power
POWER OUT 1-4 (front)	4 connectors which each has: <ul style="list-style-type: none"> • 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

Audible warning signal	The unit shall be able to provide a audible 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	Dupont AE0305-6603120 (RAL6031)
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 (17.4 in)
Surface treatment chassis	Chromit-Al
Weight	5.6 kg (12.6 lbs)

MTBF	Greater than 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 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
BASIC CURVE 220

EMI radiated RE102 MIL-STD-461F
Navy Mobile & Army
2 MHz - 18 GHz

EMS conducted CS101 MIL-STD-461F, Method CS101, conducted susceptibility, 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