

19"/2[®] PWR3121



PDU with AC-DC

The PWR3121 offers one AC input and four DC outputs, providing a total of 480 W output. This is an ideal power distribution unit for small systems connected to AC input.

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 on to a surface and at 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.

Customizable

Are you looking for additional features and functions? MilDef specializes in customized solutions, to include change of connectors, chassis modifications, mounting solutions, etc. Contact your nearest MilDef Sales Office and we will help you tailor a solution to meet your exact requirements.

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

- 110 VAC to 240 VAC input
- 4 DC outputs
- 480 W output power
- Circular MIL connectors
- LEDs for load indication

Connector Interfaces

POWER OUT 1-4 (front)	4 connectors which each has: <ul style="list-style-type: none"> • 1x Power
SERVICE-E (front)	<ul style="list-style-type: none"> • 1x ETH 1000BASE-T
SERVICE (back)	<ul style="list-style-type: none"> • 1x RS232 Service
AC IN (front)	<ul style="list-style-type: none"> • 1x Power

Other Interfaces

5x Power load indicator (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
SNMP	SNMP v3 compliant
Output protection	10 A software fuse
Power input	110 VAC to 230 VAC
Power output	28 VDC, Max 10 A/port, Max 480 W
Chassis material	Aluminum
Coating and color	Dupont AE0305-6603120 (RAL6031)
Cooling	Passively cooled
Dimensions	220 x 44 x 360 mm (8.7 x 1.7 x 14.2 in) (WxHxD)
Rack mounting depth	400 mm (15.8 in)
Surface treatment chassis	Chromit-Al
Weight	4.9 kg (10.8 lbs)
MTBF	> 350,000 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
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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)
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Low air pressure - Operating	MIL-STD-810G, method 500.5, Procedure II - Operation/Air Carriage 4,572 m (15,000 ft)
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Low temperature - Operating	MIL-STD-810G, method 502.5, Procedure II - Operation -40 °C (-40 °F)
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Low temperature - Storage	MIL-STD-810G, method 502.5, Procedure I - Storage -40 °C (-40 °F)
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Noise level	Maximum noise level of 40 dB SPL A-weighting at 1 m (3.3 ft) distance
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Salt fog	MIL-STD-810G Method: 509.5 5 % ± 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)
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Vibration - Helicopter	MIL-STD-810G, Method 514.6, Procedure I - General vibration, Category 14 - Rotary wing aircraft - helicopter
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Vibration - Loose cargo	MIL-STD-810G, Method 514.6, Procedure II - Loose cargo transportation, Category 5 - Truck/trailer - loose cargo
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Vibration - Tracked vehicles	MIL-STD-810G, Method: 514.6 , Procedure 1 - General Vibration, Category 20 - Ground vehicles - ground mobile, tracked vehicles
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Vibration - Wheeled vehicles	MIL-STD-810G, Method: 514.6 , Procedure 1 - General Vibration, Category 20 - Ground vehicles - ground mobile, wheeled vehicles
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EMC Specification

EMI conducted CE102	MIL-STD-461F, Method CE102 BASIC CURVE 220VAC 10kHz to 10MHz
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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