

# 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 230 VAC input
- 4 DC outputs
- 480 W output power
- Circular MIL connectors
- LEDs for load indication

**Connector Interfaces**

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

**Other Interfaces**

5x Power load indicator (front)
1x Mute button (front)
1x System button (front)

**Technical Specification**

<b>Audible warning signal</b>	The unit shall be able to provide a audible warning signal that may be muted
<b>SNMP</b>	SNMP v3 compliant
<b>Output protection</b>	10 A software fuse
<b>Power input</b>	110 VAC to 230 VAC
<b>Power output</b>	28 VDC, Max 10 A/port, Max 480 W
<b>Chassis material</b>	Aluminum
<b>Coating and color</b>	AE0305-6603120 Axalta (RAL 6031)
<b>Cooling</b>	Passively cooled
<b>Dimensions</b>	220 x 44 x 360 mm (8.7 x 1.7 x 14.2 in) (WxHxD)
<b>Rack mounting depth</b>	400 mm (15.8 in)
<b>Surface treatment chassis</b>	Chromit-Al
<b>Weight</b>	4.9 kg (10.8 lbs)
<b>MTBF</b>	> 350,000 h
<b>CE</b>	Compliant

**Environmental Specification**

<b>Functional shock - Operating</b>	MIL-STD-810G, Method 516.6, Procedure I - Functional Shock. Table 516.6-II, Terminal peak sawtooth pulse, Ground equipment 40 g 11 ms
<b>High temperature - Operating</b>	MIL-STD-810G, Method 501.5, Procedure II - Operation 55 °C (131 °F)
<b>High temperature - Storage</b>	MIL-STD-810G, Method 501.5, Procedure I - Storage 71 °C (160 °F)

<b>Humidity</b>	MIL-STD-810G, Method 507.5, Procedure II - Aggravated 95 ± 4 % RH Ten 24 h cycles
<b>IP Class (Solid Particle Protection)</b>	IP Class 6X
<b>IP Class (Water)</b>	IP Class X5
<b>Low air pressure - Rapid decompression</b>	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)
<b>Low air pressure - Operating</b>	MIL-STD-810G, method 500.5, Procedure II - Operation/Air Carriage 4,572 m (15,000 ft)
<b>Low temperature - Operating</b>	MIL-STD-810G, method 502.5, Procedure II - Operation -40 °C (-40 °F)
<b>Low temperature - Storage</b>	MIL-STD-810G, method 502.5, Procedure I - Storage -40 °C (-40 °F)
<b>Noise level</b>	Maximum noise level of 40 dB SPL A-weighting at 1 m (3.3 ft) distance
<b>Salt fog</b>	MIL-STD-810G Method: 509.5 5 % ± 1 % (by weight) Two cycles, 24 h wet + 24 h dry / cycle
<b>Temperature shock - Operating</b>	MIL-STD 810G, method 503.5 procedures I - C, - Multi-cycle shocks from constant extreme temperature 55 °C (131 °F) -40 °C (-40 °F)
<b>Vibration - Helicopter</b>	MIL-STD-810G. Method 514.6, Procedure I - General vibration, Category 14 - Rotary wing aircraft - helicopter
<b>Vibration - Loose cargo</b>	MIL-STD-810G. Method 514.6, Procedure II - Loose cargo transportation, Category 5 - Truck/trailer - loose cargo
<b>Vibration - Tracked vehicles</b>	MIL-STD-810G. Method: 514.6 , Procedure 1 - General Vibration, Category 20 - Ground vehicles - ground mobile, tracked vehicles
<b>Vibration - Wheeled vehicles</b>	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 220VAC 10kHz to 10MHz
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

