

# 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

<b>POWER OUT 1-4 (front)</b>	4 connectors which each has: <ul style="list-style-type: none"> <li>• 1x Power</li> </ul>
<b>SERVICE-E (front)</b>	<ul style="list-style-type: none"> <li>• 1x ETH 1000BASE-T</li> </ul>
<b>SERVICE (back)</b>	<ul style="list-style-type: none"> <li>• 1x RS232 Service</li> </ul>
<b>AC IN (front)</b>	<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>CE</b>	Compliant
<b>SNMP</b>	SNMP v3 compliant
<b>Output protection</b>	10 A software fuse
<b>Power input</b>	110 VAC to 240 VAC
<b>Power output</b>	28 VDC, Max 10 A/port, Max 480 W
<b>Chassis material</b>	Aluminum
<b>Coating and color</b>	Dupont AE0305-6603120 (RAL6031)
<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 (17.4 in)
<b>Surface treatment chassis</b>	Chromit-Al
<b>MTBF</b>	Greater than 25,000 h

## 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

## IP Class (Solid Particle Protection) IP Class 6X

<b>IP Class (Water)</b>	IP Class X5
<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>Transit drop, in shipping package</b>	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

## EMC Specification

<b>EMI conducted CE102</b>	MIL-STD-461F, Method CE102 BASIC CURVE 220VAC 10kHz to 10MHz
<b>EMI radiated RE102</b>	MIL-STD-461F Navy Mobile & Army 2 MHz - 18 GHz
<b>EMS conducted CS101</b>	MIL-STD-461F, Method CS101, conducted susceptibility, power leads. CURVE #1 30 Hz to 150 kHz
<b>EMS conducted CS114</b>	MIL-STD-461F Army, Ground 10 kHz - 200 MHz
<b>EMS conducted CS115</b>	MIL-STD-461F Conducted susceptibility, bulk cable injection, impulse excitation
<b>EMS conducted CS116</b>	MIL-STD-461F 10 kHz - 100 MHz
<b>EMS radiated RS103</b>	MIL-STD-461F Army 2 MHz - 1 GHz