

19"/2[®] PWR501



A powerful PDU in a small form factor

The 19"/2[®] PWR501 is a power distribution unit with support for up to 10 outputs and can handle up to 60 Ampere input. It comes with individual fuses on each port minimizing the impact of potential malfunction of connected units.

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

- 60A DC input, 24-32V DC
- 9x DC output, 24-32V DC 25A
- 1x DC output, 12V DC 20A
- 1x On/off toggle switch

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Technical Specification	
Interfaces (front)	1 x DC in, 24-32 V, max 60 A (38999) 1 x DC out, 12 V, max 20 A (38999) 9 x DC out 24 – 32 V DC (Pass through from power input), max 25A (38999) 1 x On/Off toggle switch
Power Consumption	8 W (without load)
Transient power protection	Surge & burst on DC in
IP class	IP65
Case	Aluminum
Dimensions	220 x 214 x 133 mm (W x D x H)
Weight	6 kg
Certifications	Designed to meet MIL-STD-1275*, MIL-STD-810F and MIL-STD-461F
Other	No fans

*Internal protection only. Not pass-through protection

MIL-STD-810F	Operating	Storage
Altitude Method 500.4, (procedure II, III)	4572 m (15000 ft)	Rapid decompression 12192 m (40000 ft)
Humidity Method 507.4	Five 48 h test cycles	-
Shock Method 516.5, (procedure I, IV)	40 G, 11 ms (Terminal-peak saw tooth shock pulse)	122 cm (26 drops)*
Salt fog Method 509.4, (Procedure I)	-	Salt concentration of 5 % +-1 % (48 h wet +48 h dry/cycle)
Temperature Method 501.4 & Method 502.4, (procedure I, II)	-40 °C to 55 °C (-40 °F to 131 °F)	-40 °C to 70 °C (-40 °F to 158 °F)
Temperature shock Method 503.4 (procedure I)	-20 °C to +55 °C (-22 °F to +131 °F)	-
Vibration Method 514.5		
- Category 2	-	√
- Category 14	√	-
- Category 20 a & b	√	-

* Only with optional Peli Case

MIL-STD-461F	Limitation	Threshold
EMI radiated Method RE102	10 kHz to 18 GHz	Ground, Navy Mobile & Army
EMI radiated Method RS103	2 MHz to 1 GHz	Army
EMI conducted Method CE102	10 kHz to 10 MHz	Basic Curve
EMI conducted Method CS114	10 kHz to 200 MHz	Army
EMI conducted Method CS115	Tested according to standard	Army
EMI conducted Method CS116	10 kHz to 100 MHz	Army