

19"/2® PWR312



Compact power distribution unit

The 19"/2® PWR312 PDU offers one DC input and six DC outputs all in compact form factor. Designed for tactical military environments where reliability and performance are key.

Customizable

Are you looking for features and functions beyond the standard solution? 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 meets your requirements.

Guaranteed performance

Our products 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 5 years after product end-of-life.

Features

- Six DC outputs
- NATO GVA compliant connectors
- Small footprint
- Aluminum chassis

Technical Specification

Product description	Power distribution unit
Power input	10-36V DC, max 20A
Power output	6x DC outputs, max 15A per port
MTBF	2,431,966h
Case	CNC milled Aluminum
Dimensions chassis (W x D x H)	220 x 138 x 44 mm (8.66 x 5.43 x 1.73 inch)
Dimensions w. connectors (W x D x H)	220 x 178 x 44 mm (8.66 x 7.01 x 1.73 inch)
Weight	1,35 kg (3 lbs.)
Temperature operating	-40°C + 65°C / -40°F to 149°F (option for +71°C / +160°F)
Temperature Storage	-40°C + 71°C / -40°F to 160°F
Certifications	CE, IP65, MIL-STD-810G and MIL-STD-461F, REACH
Other	Cables and accessories are available at request.

Connector Interfaces

Interfaces (front)	- 4x DC out
Interfaces (back)	- 1x DC in 10-36 VDC - 2x DC out - 1x Earth point

Back side





Environmental Specification

Low Air pressure

Low air pressure – Rapid Decompression MIL-STD-810G, Method 500.5, <i>Procedure III – Rapid Decompression</i>	Decompression altitude: 12.192 m / 40.000 ft Cabin altitude: 2.438m / 8.000 ft
Low air pressure - Operating MIL-STD-810G, Method 500.5, <i>Procedure II - Operation/Air Carriage</i>	4.572 m / 15.000 ft

IP Class

IP	IP65
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Humidity

Humidity – Storage MIL-STD-810G, Method 507.5 <i>Procedure II (Aggravated) - Figure 507.5-7</i>	24-hours per cycle / Total of 10 cycles Between 30°C (86°F) and 60°C (140°F) with the relative humidity at 95% constant
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Shock

Functional Shock - Operating MIL-STD-810G, Method 516.6 <i>Procedure I – Figure 516.6-10</i>	Table 516.6-II – Ground equipment Terminal-peak sawtooth shock pulse 40g, 11ms
Transit drop (in shipping package) MIL-STD-810G, Method 516.6 <i>Procedure IV – Transit Drop</i>	Table 516.6_VI 122 cm (48 inch) 26 drops

Salt Fog

Salt fog MIL-STD-810G Method 509.5	5 % + - 1 % (by weight) 24 h wet + 24 h dry /cycle Total 2 cycles / 96 hours
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Temperature

Low temperature - Operating MIL-STD-810G Method 502.5 <i>Procedure II – Operation</i>	-40 °C / -40 °F
Low temperature - Storage MIL-STD-810G Method 502.5 <i>Procedure I – Storage</i>	-40 °C / -40 °F
High temperature - Operating MIL-STD-810G Method 501.5 <i>Procedure II – Operation</i>	65 (71) °C / 149 (160) °F
High temperature - Storage MIL-STD-810G Method 501.5 <i>Procedure I – Storage, Hot Dry (A1), Induced</i>	71 °C / 160 °F
Temperature Shock – Non-Operating MIL-STD 810H Method 503.7 <i>Procedure I-C (Figure 503.7-3)</i>	-40°C / -40°F to 55°C / 131°F

Vibrations

Vibration – Storage MIL-STD-810G, Method 514.6 <i>Procedure II – Lose Cargo Transport</i>	Cat. 5 – Truck trailer – Lose Cargo
Vibration - Operational MIL-STD-810G, Method 514.6 <i>Procedure I – General Vibration</i>	Cat. 14 - Rotary wing aircraft - helicopter Helicopter = UH-1
Vibration - Operational MIL-STD-810G, Method 514.6 <i>Procedure I – General Vibration</i>	Cat. 20 - Ground Vehicles – ground mobile, Tracked Vehicles AECTP 400 (Ed. 3, 2006), Figure B-3, Tracked Vehicle, Heavy Vehicle
Vibration - Operational MIL-STD-810G, Method 514.6 <i>Procedure I – General Vibration</i>	Cat. 20 – Ground vehicles - ground mobile, wheeled vehicles. AECTP 400 (Ed. 3, 2006), Figure A-2, Tactical Wheeled Vehicle - All Terrain Test Description



EMC Specification

MIL-STD-461F

MIL-STD-461F, Method CE102	Conducted Emissions, Power Leads Base Curve 220
MIL-STD-461F, Method CS101	Conducted susceptibility, power leads 30 Hz to 150 kHz Curve #1
MIL-STD-461F, Method CS114	Conducted Bulk Susceptibility Threshold: Army, Ground 10kHz to 200MHz
MIL-STD-461F, Method CS115	Conducted susceptibility, bulk cable injection, impulse excitation
MIL-STD-461F, Method CS116	Conducted Susceptibility, Damp Sinusoidal Transients, Cables & Power Leads 10 kHz to 100 MHz
MIL-STD-461F, Method RE102	Radiated Emissions, Electric Field Threshold: Ground Applications, Navy Mobile & Army 2 MHz to 18GHz
MIL-STD-461F, Method RS103	Radiated Susceptibility, Electric Field Threshold: Army 2MHz to 1GHz