

19"/2[®] Power Distribution



MilDef has developed three different products within the power distribution segment. An AC/DC converter with two 28 V DC outputs, a UPS for increased reliability and a Power Panel with the possibility to connect up to 6 units to one power source. These units can be used separately or be combined in different power packs depending upon the need. All units are a part of our 19"/2 product family. Visit www.mildef.se for our complete 19"/2 product family.

19"/2 AC/DC PWR101

A powerful 250 W (300 W peak) AC/DC converter. Input voltage of 110/230 V AC and two 28 V DC outputs are provided. The unit has a built in warning system that indicates when the power reaches a critical level. When 9A is reached the port is automatically shut down. This critical threshold levels can be configured.



19"/2 UPS PWR201

UPS for 12 V or 24 V/28 V systems; equipped with 2 x 4 cells Lithium-Ion batteries that gives it a total capacity of 2.2 Ah. It has indicators for status and external power supply and is also equipped with a console port for reading warning- and error logs.

19"/2 Power Panel PWR301

A Power Panel with DC input and six DC outputs; each port support maximum 10 A. The total current throughput of the Power Panel is 20A. Each output has a 10 A fuse that is placed at the rear of the unit. In the event of a fuse being activated it can easily be reset by simply pushing it.



19"/2® Power Distribution



Technical Specification

Descriptions AC/DC PWR101
110/230 V AC in, 2 x 28 V DC out
Max 9 A total

UPS PWR201
Suitable for 12/28 V DC (auto sense)
Capacity: 2,2 Ah
Max: 10 A

Power Panel PWR301
10-32 V DC input
Separate 10 A fuse for each output

Connections AC/DC PWR101
1 x 110/230 V AC in
2 x 28 V DC out, MIL connectors
1 x Service port

UPS PWR201
1 x DC in, MIL connector
1 x DC out, MIL connector
1 x Service port

Power Panel PWR301
1 x DC in, MIL connector
6 x DC out, MIL connector

Dimensions AC/DC PWR101
220 x 202 x 44 mm (W x D x H)

UPS PWR201
220 x 182 x 44 mm (W x D x H)

Power Panel PWR301
220 x 182 x 44 mm (W x D x H)

Weight AC/DC PWR101
3 kg

UPS PWR201
2,5 kg

Power Panel PWR301
1,5 kg

Certifications Designed to meet IP54, MIL-STD-810 and MIL-STD-461

Other No fans

Designed to meet:

MIL-STD-810F	Operating	Storage
Altitude Method 500.4, (<i>procedure II,III</i>)	4572 m (15000 ft)	Rapid decompression 12180 m (40000 ft)
Humidity Method 507.4	Five 48 h test cycles	-
Shock Method 516.5, (<i>procedure I, IV</i>)	40 G, 11 ms (Terminal-peak saw tooth shock pulse)	122 cm (26 drops)*
Salt fog Method 509.4, (<i>Procedure I</i>)	-	Salt concentration of 5 % +-1 % (48 h wet +48 h dry/cycle)
Temperature Method 501.4 & Method 502.4, (<i>procedure I, II</i>)	-30 °C to 55 °C (-22 °F to 131 °F)	-30 °C to 55 °C (-22 °F to 131 °F)
Temperature shock Method 503.4 (<i>procedure I</i>)	-30 °C to +55 °C (-22 °F to +131 °F)	-
Vibration Method 514.5		
- <i>Category 2</i>	-	√
- <i>Category 14</i>	√	-
- <i>Category 20 a & b</i>	√	-

* Only with optional Peli Case

Designed to meet:

MIL-STD-461F	Limitation	Threshold
EMI radiated Method RE102	10 kHz to 18 GHz	Navy Mobile & Army
EMI radiated Method RS103	2 MHz to 1 GHz	-
EMI conducted Method CE102	10 kHz to 10 Mhz	Basic Curve
EMI conducted Method CS101	30 Hz to 150 kHz	Curve #2
EMI conducted Method CS114	10 kHz to 200 MHz	Curve #4
EMI conducted Method CS115	Tested according to standard	-
EMI conducted Method CS116	10 kHz to 100 MHz	-

19"/2® UPS Power



19"/2® UPS Power consists of a UPS and a Power Panel. An external 12/28 V power source is connected to the UPS which then is connected to the Power Panel. That gives a total of six 12/28 V DC outputs. If the external power source is cut off the six ports on the Power Panel will automatically be switched over to battery power via the UPS.

Technical Specification

Descriptions UPS PWR201
 Suitable for 12/28 V DC (auto sense)
 Capacity: 2,2 Ah
 Max: 10 A

Power Panel PWR301
 10-32 V DC input
 10 A fuse for each output

Connections UPS PWR201
 1 x DC in, MIL connector
 1 x DC out, MIL Connector
 1 x Service port

Power Panel PWR301
 1 x DC in, MIL connector
 6 x DC out, MIL connector

Dimensions 220 x 182 x 88 mm (W x D x H)

Total weight 4 kg

In the example above the units are stacked on top of each other. These units can also be mounted side by side for 19" rack or stand alone.

The kit complete with all power cables and service cable

The kit includes

- Cables
 - 8 Power cables
 - 1 Service cable UPS
- Mounting brackets
 - Stacked mounting
 - Side by side in 19" rack
 - Screwdriver
 - Screws

Accessories

- Carrying handle

19"/2® AC/DC Power



19"/2® AC/DC Power consists of an AC/DC converter and a Power Panel. The AC/DC is connected to 110/230 V AC from an external power source. One of the outputs on the AC/DC converter is connected to the Power Panel. With this configuration you get seven ports with 10-32 V DC-output.

Technical Specification

Descriptions AC/DC PWR101
110/230 V AC in, 2 x 28 V DC out
Max 9 A total

Power Panel PWR301
10-32 V DC input
10 A fuse for each output

Connections AC/DC PWR101
1 x 110-230 V AC in
2 x 28 V DC out, MIL connector
1 x Service port

Power Panel PWR301
1 x DC in, MIL connector
6 x DC out, MIL connector

Dimensions 220 x 202 x 88 mm (W x D x H)

Total weight 4,5 kg

In the example above the units are stacked on top of each other. These units can also be mounted side by side for 19" rack or stand alone.

The kit complete with all power cables and service cable

The kit includes

- Cables
 - 8 Power cables
 - 1 Service cable UPS
- Mounting brackets:
 - Stacked mounting
 - Side by side in 19" rack
 - Screwdriver
 - Screws

Accessories:

- Carrying handle

19"/2® Power Distribution



19"/2® Power Distribution is a complete Power Distribution package. An external power source is connected to the AC/DC converter. One of the two DC outputs from the AC/DC converter is connected via the UPS to the Power Panel. This gives a total of one DC output that is not UPS secure (via the AC/DC converter) and six DC-outputs via the UPS.

Technical Specification

Descriptions	AC/DC PWR101 110/230 V AC in, 2 x 28 V DC out Max 9 A total
	UPS PWR201 Suitable for 12/28 V DC (auto sense) Capacity: 2,2 Ah, Max: 10 A
	Power Panel PWR301 10-32 V DC input 10 A fuse for each output
Connections	AC/DC PWR101 1 x 110-230 V AC in 2 x 28 V DC out, MIL connector 1 x Service port
	UPS PWR201 1 x DC in, MIL connector 1 x DC out, MIL connector 1 x Service port
	Power Panel PWR301 1 x DC in, MIL connector 6 x DC out, MIL connector
Dimensions	220 x 202 x 88 mm (W x D x H)
Total weight	7 kg

In the example above the units are stacked on top of each other. These units can also be mounted side by side for 19" rack or stand alone.

The kit complete with all power cables and service cable

The kit includes

- Cables
 - 9 Power cables
 - 1 Service cable AC/DC converter
 - 1 Service cable UPS
- Mounting brackets
 - Stacked mounting
 - Side by side in 19" rack
 - Screwdriver
 - Screws

Accessories

- Carrying handle