

Power Distribution and Stabilized Unit (PDSU) series

**Multiple connections for vehicle, keep full power for consumers
under severe vehicular power fluctuations and
Enable each connected powered device according to
its needs**

General Description

This product line is a power distribution and stabilized output voltage aimed to provide 28Vdc/600W total power for 6 consumer loads. Each load is driven by 28Vdc and 12Amp max current. The unit enables the consumer loads to work free of concerns from power fluctuations as appears on the vehicle DC power bus per MIL-STD-1275.

The products protect electronic equipment against transients, surges, over and under voltage fluctuations that are inherent in military land vehicles (as determined in MIL-STD-1275).

This series consists of a variety of products to comply with all requirements of MIL-STD-1275, including polarity protection, power interrupts, short circuit protection and EMI protection.

This series has full compliance with MIL-STD-461.

Load appearance indication and self recovery electronic circuit-breaker for over current and short circuit protection are build-in (disable only the fault consumer). The product is capable of substantial hold up time function.

Typical Specifications

- Output power 600W
- Comply with MIL-STD-1275 in all versions.
 - ✓ Input steady-state voltage: 18 to 32 Vdc
 - ✓ Transient surge: 100V@50mSec
 - ✓ Transient spike: ± 250 Vpk@15mJoul
 - ✓ 7Vp-p ripple, up to 200KHz.
 - ✓ Polarity protection, provided
 - ✓ Emergency condition, 6V (engagement)
- Output voltage per transients: 28Vdc
- Shut down (On-Off switch): provided
- Return line, floated
- Provided short circuit/over current protection: electronic self recovery circuit breaker.
- Build-in hold up time function
- Load/ No load and short/overcurrent indications (colored LED).

Environmental Conditions:

Fully comply with MIL-STD-810F:

Operating Temperatures: - 40°C to 55°C

Storage temperatures: - 42°C to 63°C

Vibration: Method 514.5, Proc I, Cat 20 Ground Vehicle.

Shock: 40g X 15ms Saw Tooth

Humidity: Method 507.4 (240 hrs up to 95% @60°C)

Salt Fog Method 509.4

Comply with MIL-STD-461E: CE101, CE102, CS101, CS114, CS115, CS116, RE102, RE103, RS101, RS103.



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