

Power Distribution Unit – Ground Mobile (PDU-GM) Series

Multi output channels Low profile High Power Full protected power supply

General Description

PDU-GM is a vehicular multipurpose power distribution. The PDU is designed to be installed on 12VDC/24VDC vehicle power system and provides several **(5 output channels of 3 voltage values for the unit shown)** DC output voltages.

It has the capabilities of:

- Supply regulated power voltage for electrical systems on the vehicle.
- Multiple output voltage per request (**unit shown**):
 - One output of 24VDC (100W)
 - Two outputs of 12 VDC (100W)
 - Two outputs of 5VDC. (50W)
- Indication on vehicle battery status
- Indicating Low voltage output (Yellow)
- Automatic shutdown in case of low battery and self recovery.



Typical Specifications (unit shown)

- Input steady-state voltage: 9VDC to 16 VDC
- MIL-STD-1275 requirements:
 - ✓ Transient surge: 100V@50mSec
 - ✓ Transient spike: $\pm 250\text{Vpk@}15\text{mJoul}$
 - ✓ Ripple Voltage – 7Vp-p @ up to 200KHz
 - ✓ Reverse polarity protection – included
 - ✓ Over voltage protection: 120% of maximum output
- Output voltage:
 - ✓ 24V DC output – 100W, up to 4.0A
 - ✓ 12V DC output – 100W, up to 8.5A
 - ✓ 5VDC output – 100W, 10A.
 - ✓ Inherent short circuit protection
 - ✓
- Alarm and Indications
 - ✓ Power OK - GREEN
 - ✓ Over load – YELLOW
 - ✓ Input power <8V - RED
- Efficiency
 - ✓ Typical efficiency – 85% each output.

Environmental Conditions:

Fully comply with MIL-STD-810F:

Operating Temperatures: - 20°C to 71°C

Storage temperatures: - 40°C to 71°C

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

Shock: 40g X 15ms Saw Tooth

Humidity: UP TO 95%

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