

# C4ISR Vehicle Power Distribution Unit



**HIGH RELIABILITY**

**DISTRIBUTES CLEAN, PROTECTED DC POWER EFFICIENTLY**

**CLEAN POWER 28V AT 100AMPS**

- ▶ Shields Sensitive Electronics Equipment from Low and High Voltage
- ▶ Fielded in Numerous Tactical Vehicles throughout the US Department of Defense
- ▶ Rugged Construction with Documented High Reliability
- ▶ Combat Proven
- ▶ No Maintenance
- ▶ Fast Transient Protection
- ▶ EMI Filtering
- ▶ Reverse Battery Protection



The C4ISR Power Distribution Unit (PDU) is a combat proven, rugged vehicle mounted assembly providing filtered, circuit breaker protected, DC power to vehicle communications, intercom, jamming and other sensitive electronic equipment.

The PDU includes isolated Electro-Magnetic Interference (EMI) filtering and fast-transient protection. Toggle switch circuit breakers provide selective power shutdown.



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Embedded low-level LED indicators provide immediate system status indication. An innovative legend design allows rapid relabeling of the system circuit interconnects. Three optional mounting brackets simplify installation.

In many tactical vehicles, Command Control Communications Computers Intelligence Surveillance and Reconnaissance (C4ISR) equipment is integrated in a parasitic fashion to the vehicle's electrical system. Results can be damaging to sensitive C4ISR equipment, communications equipment can experience cross-talk and the vehicle's battery can be over-discharged. This vehicle PDU protects equipment and provides an elegant connection apparatus throughout the vehicle.



Vehicle Power Distribution Unit (PDU)



Typical Vehicle PDU Platform

## Standard Configuration

Quantity	Description	Part Number	Dimensions	Weight
1	Vehicle Power Distribution Unit	0589A01	16.0" x 9.0" x 3.75"	22 lbs

## General Specifications

### Electrical –

- DC Input 0-36 VDC – 100 Amps
- DC Input Connection: 3/8" Isolated Power Stud
- DC Output: 2x 8 Position, Covered, Terminal Blocks #10
- 8x Filtered Output Power (Customizable)
  - 2 @ 5 Amps
  - 2 @ 10 Amps
  - 2 @ 20 Amps
  - 2 @ 30 Amps

### Environmental – Designed and tested in accordance with

- specifications MIL-C-55629 and MIL-STD-202 as follows:
- Vibration: MIL-STD 202 Method 204
- Moisture Resistance: Mil-C-55629 per MIL-STD-202, Method 106
- Shock Resistance: MIL-292 Method 213
- Temp Range: -40°C to 85°F (-40°F to 185°F)
- Reliability – MTBF >87,000 Hours