



Designed to comply with MIL-STD-704F, MIL-STD-1275D and the following MIL-STD-461F requirements. (Design also includes compliance with related RTCA (FAA) DO-160G, Category B requirements.)

- **Conducted Emissions – CE101, CE102**
- **Radiated Emissions – RE101, RE102**
- **Conduced Susceptibility – CS101, CS114, CS115, CS116**
- **Radiated Susceptibility – RS101, RS103**

## Geo-PCU™ Power Conditioning Unit

### Technical Specifications

#### Size & Weight

- length: 6.9 inches
- width: 2.35 inches
- height: 1.5 inches
- Weight is approximately 12 oz.

#### Input

- 9 VDC to 36 VDC, 28 VDC nominal
- 5A external fuse or circuit breaker recommended

#### Output

- 24 VDC, 1.25 A, 30 W
- Other output voltages available (30 W max)

#### Features

- Isolated DC - DC converter, up to 89% efficient
- Continued operation during momentary input interruptions (up to 200 ms on 28v power)

- Inrush current limited
- Active input filtering for compliance with EMI/EMC requirements

#### Protection

- Over Voltage: 60 VDC, 100 ms; 100 VDC, 50 ms
- Reverse Voltage: 80 VDC, continuous
- Transient Voltage:  $\pm 250V$ , 70  $\mu S$ ,  $\pm 100V$ , 1 ms
- Output Over Current: Automatic shutdown and retry

#### Compliance

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