This lightweight solid-state Power Supply/Dimmer has been designed for fighter trainer aircraft formation lights. The unit converts the aircrafts main bus 28 VDC into a 115 VAC, 400 Hz dimmable, from 0 to full voltage, by means of an external 5 kOhm potentiometer located on the cockpit control panel.

The Dimmer is short-circuit protected and has been fully qualified in accordance with MIL-STD 810E. Since it requires no forced air cooling it is absolutely maintenance-free. The unit continuously operates normally after input power interruptions of up to 50 ms and does not require re-initialization following power interruptions. Neither it does not require any warm up or alignment period and is ready for operation when power is applied.

EUROATLAS maintains a 24/7 spare part delivery service for its Airborne Power Supplies.
**Electrical Specifications**

**Input**
- Voltage: 18 to 29 VDC
- Quality of Mains: MIL-STD-704 E

**Output**
- Voltage: 0 to 115 VAC, single phase
- Frequency: 400 Hz, ± 2%
- Power: 40 VA
- Overload: 150 % for 5 minutes
- Power Factor: Zero to 0.2 leading

**Environmental Specification**

**Temperature Range**
- Operation: -54°C to +71°C
- Storage: -54°C to +90°C

**Humidity**
- MIL-STD 810 E, Method 507.3, Pr. II

**Shock**
- MIL-STD 810 E, Method 516.4, Pr. I (20 g/11 ms)

**Vibration**
- 1 hr/axis, Grms = 15 g (15 .....2000 Hz)

**Acceleration**
- 8 g

**Altitude**
- 45,000 feet

**EMC**
- Acc. to MIL-STD 461D, CE102, CS101, CS114, CS115, CS116, RE102, RS103

**Dielectric Strength**
- 1,500 Vrms, 50 Hz, 10 seconds

**Physical Characteristics**

**Dimensions**
- 50 x 82 x 127 mm (HxWxD)

**Weight**
- 625 g

**Interface**
- Military qualified connector (MS)

**Design Characteristics**

**Control**
- External Potentiometer 5 kOhm

**Cooling**
- Normal convection and radiation

**MTBF**
- > 100,000 Fh

**Qualification**
- Fully qualified in accordance with equipment specification, based on MIL-STDs

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Specification subject to change without notice