

Light Dimmer 40 VA

For Airborne Application



EUROATLAS 40 VA Light Dimmer, Model 3045

This lightweight solid-state Power Supply/Dimmer has been designed for fighter trainer aircraft formation lights. The unit converts the aircraft's 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.

Standard Features

- Completely Qualified
- Short-circuit protected
- Low weight and size
- High Reliability

Application

- Military and Commercial Aircraft

Support Service

- Complete Integrated Logistic Support (ILS)



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, $\pm 2\%$
Power	40 VA
Overload	150 % for 5 minutes
Power Factor	Zero to 0.2 leading

Environmental Specification

Temperature Range.....	-54°C to +71°C (operation) -54°C to +90°C (storage)
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 (152000 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

Specification subject to change without notice



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