



communications
EUROATLAS

BULLETIN 6412

Static Frequency Converter 40 VA

For Commercial Aircraft



EUROATLAS Static Frequency Converter, Model 3025

This lightweight solid-state 400 Hz to 60 Hz Frequency Converter has been designed for commercial airborne application and is in operation on various AIRBUS planes. The unit converts aircraft primary AC power of 400 Hz into 110 V, 60 Hz and supplies the socket outlets in the passenger compartment.

The output is isolated from the input and the EMI filtering complies with RTCA/DO 160. Since it requires no forced air and operates without a fan it is absolutely maintenance-free and its proven reliability exceeds a MTBF of 100.000 hours. The Converter is overload capable and short-circuit protected and has been qualified in accordance with AIRBUS-Standards for interior equipment mainly based on RTCA/DO 160. This Static Converter is also available (as Model 3026) with an additional 220 V output.

EUROATLAS maintains a 24-hour spare part delivery service for its Airborne Power Supplies.

Standard Features

- Short-circuit protected
- No forced air cooling
- No fan
- Low weight and size

Application

- Civil Aircraft

Support Service

- Full Product Support
- AOG Service

Options

- Available with 220 V output as Model 3026



Electrical Specifications**Input**

Voltage	115 VAC, single phase
Surge Voltage	RTCA/DO-160 C (16.5.1.5/16.5.3.3)
Voltage Spikes	RTCA/DO-160 C, Cat. A
Frequency	400 Hz, \pm 5%

Output

Voltage	110 VAC, \pm 10%, single phase
Frequency	60 Hz, \pm 5 %
Power	40 VA
Overload	25% for 1 min.
Efficiency	\geq 70%

Environmental Specification

Temperature Range.....	-15°C to +55°C (operation) -55°C to +85°C (storage)
Humidity.....	95% (RTCA/DO-160 C, Cat. A)
Shock	6 g/11 ms, all directions (RTCA/DO 160 A, Section 7)
Vibration	RTCA/DO 160 C, Section 8, Cat. A1
Altitude	15.000 feet (RTCA/DO 160 C, S.4, Cat. A1)
EMC.....	RTCA/DO 160 D, Sect. 21, Cat. A

Physical Characteristics

Dimensions.....	60 x 107 x 140 mm (HxWxD)
Weight	740 g
Interface	6-pin airborne connector

Design Characteristics

MTBF.....	\geq 100,000 Fh
Qualification.....	Fully qualified in accordance with equipment specification, based on RTCA/DO-160

Specification subject to change without notice