



## Static Frequency Converter 5 kVA

This solid-state 60 Hz to 400 Hz Converter is capable supplying a nominal consumer load up to full power of 5kW/kVA with a power factor of 0.8 lagging to 1.0 to 0.8 leading continuously. The Unit is able to supply an overload up to 130% for 3 min and it comprises a short-circuit protection with constant current behavior, enabling a short-circuit current of approx. 2 x Inom for 30 s during load failure conditions.

The Built-In Test Equipment (BITE) is realized by integrated fault detection and location system with an interface to the monitoring panel. Status and alarm signals are available for external monitoring.

All subassemblies and components are removable from the front of the aluminum cabinet. The air inlet with cut to size filter sheet is located on the lower front side of the cabinet and the air outlet on the rear side at the upper cabinet area.

For redundancy or power increase purposes two Models 4061 can operate in parallel.



### For Naval Application

#### Standard Features

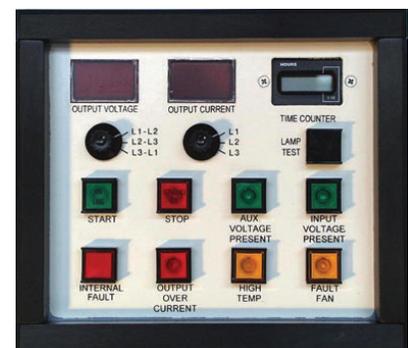
- High efficiency
- Low noise
- High reliability
- Modular design

#### Application

- Weapon Systems
- Combat Systems
- Navigation
- Communication

#### Support Service

- Complete Integrated Logistic Support (ILS)





## Electrical Specifications

### Input

Voltage, Frequency ..... 440 V, 60 Hz, 3ph  
 Quality of Mains.....Acc. to STANAG 1008, Edition 8

### Output

Voltage.....115V,  $\pm$  1%, 3ph  
 Voltage Transient at load step  $\leq$  5% at 50% - 100% - 50%  
 load step  
 Recovery Time at load step  $\leq$  20 ms  
 Frequency .....400 Hz,  $\pm$  0,01%  
 Power.....5 kVA/5kW  
 Overload.....130% for 3 min  
 Short circuit current.....2 x Inom for 30 s  
 Efficiency..... $\geq$  90% at 100% load  
 Total Harmonic Distortion  $\leq$  3%

## Environmental Specification

Temperature Range .....0°C to +50°C (operation), -25°C to  
 +70°C (storage)  
 Humidity..... $\leq$  100%, non condensing  
 Shock.....Acc. to BV 0430/1.89  
 Vibration.....Acc. to BV 0440/10.90

Airborne Noise..... $\leq$  55 dB (A) in 1 m distance  
 EMC .....Acc. to MIL-STD 461 C, CE 01, CE 03,  
 input and output  
 Protection.....IP 23 (DIN 40050)  
 Insulation resistance ..... $\geq$  100 MOhm for signal and power leads

## Physical Characteristics

Dimensions.....705 x 500 x 406 (HxWxD) mm, without  
 shock mounts  
 Weight.....140 kg,  $\pm$  5%

## Design Characteristics

Cooling .....Self-cooling by integrated fans  
 Anti-Condensation Heating 100 W (115V, 60 Hz)  
 Colour .....RAL 7001  
 MTBF.....>25,000 h  
 MTTR .....20 minutes max.  
 Monitoring.....Output Voltage/Current with phase  
 selector timer counter  
 Time Counter  
 Control .....Start/Stop, Lamp Test  
 Indication .....Aux. Voltage, Input Voltage, Over  
 Current, Fan Fault, Temperature, Internal Fault