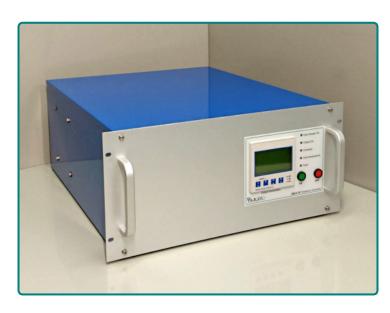
19" Rack Mount 400Hz Static Frequency & Phase Converters: 1 phase to 3 phase



- Models from 1.5 to 4KVA
- Single-Phase Input, 3-Phase Output
- Power factor corrected input (PFC)
- Sinusoidal, Isolated Output
- Comprehensive Digital Output Display
- Low Acoustic Noise
- 2-Year Warranty
- Military Variants Available
- Def-Stan 61-5(4), Stanag 1008

Cost-Effective, Compact and Dependable:

ABLE-30 series static frequency converters offer the most cost-effective and flexible way of providing an aircraft quality, 400Hz utility supply for 19" rack-mount installations. ABLE-30 series converters only require a single-phase input, but generate a 3-phase, fully aircraft compatible, 400Hz output. This means that they may be used in workshops and development laboratories where only a domestic type single-phase supply is available.

Compact, 19" Rack Mounting:

Extremely compact electronics allows the *ABLE-30* range to be packaged in 19" rack-mountable chassis. Chassis require no vertical air flow (ventilation at rear only), meaning that other equipment my be stacked immediately above and below.



The LCD readout provides extensive information

Simplicity in Operation

'Two button' operation means minimal Operator training. No special set-up is required.

.....Yet Sophistication in Display:

An easy to read digital display makes all major parameters available for review - these include (for individual phases) output Voltage, Amps, Kw, Kva, Hz and power factor. *ABLE-30* models also have facilities for remote On/Off control and remote status indication (via MODBUS RS485 or volt-free contacts).

Variable Output Voltage and Frequency:

All models may be ordered with continuously variable output voltage and frequency. The output voltage is variable by +/-15% about the nominal, and the frequency +/-5% about the nominal (380-420Hz). Control is via front panel knobs

Applications:

ABLE-30 series machines are suitable for static installations within plant rooms, hangars, workshops and laboratories. They should be installed within a standard 19" cabinet, which should have adequate cooling arrangements (normally forced). ABLE-30 units may be used in continuous duty applications.

High MTBF, Low MTTR:

An oversized rectifier and robust IGBT based inverter offer high reliability, while modular construction and a simple lay-out means that access for maintenance and repair is very straight forward.

Warranty:

All equipment is supplied with a 2-year warranty.



ABLE-30 - Technical Specifications

INPUT:

•	Input Voltage	230V	1ph or	208V 2ph,	n, +/- 10% (115V by request)

Input Current Harmonics...... IEC 1000-3-4

Input Power Factor......>0.98

etc

Input Protection...... Fuse, rear panel

OUTPUT:

Output Frequency...... 400Hz +/- 0.1%, quartz generated

Permissible Load Power Factor.....-0.6 to 1

Output is galvanically isolated from input (the output neutral may be bonded to earth).

SECURITY:

Thermal Overload...... Thermal sensors located in rectifier, inverter and output transformer.

INTERFACE:

Optional RS485 or RS422 MODBUS high speed communications port allows the output parameters of the converter to be remotely monitored.

ENVIRONMENT & EQUIPMENT:

Humidity......<90%, non-condensing

Altitude...... All specifications quoted at < 2000m above sea level

Acoustic Noise...... < 50dBA @ 1m

EMC...... Better than EN55-022B

Meters...... Digital readout for output Amps, Volts (both ph-

to-ph and ph-to-neutral), Hz, Kw and power factor for each phase.

CE marked

DIMENSIONS:

rear.

OPTIONS:

- Other input and output voltages and frequencies
- Variable output voltage and frequency
- Remote On/Off and remote status.

Model	301	302	304
Power	1.5KVA	2.5KVA	4KVA
Wt: Kg	22	26	34
lbs	48	57	75



Failsafe power converters benefit from more than 35 years of manufacturing experience and cover a wide range of solid-state converters for aerospace, naval, industrial and military applications.

