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



Cost-Effective, Compact and Dependable: *ABLE-30* series static frequency converters offer the most

Models from 1.5 to 4KVA

- Single-Phase Input, <u>3-Phase</u> 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



Compact, 19" Rack Mounting:

supply is available.

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.

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 develop-

ment laboratories where only a domestic type single-phase

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.



400Hz

ABLE-30 - Technical Specifications

 INPUT: Input Voltage Input Frequency Input Current Harmonics Input Power Factor Rectifier Inrush Input Connections etc Input Protection 	.230V 1ph or 208V 2ph, +/- 10% (115V by request) 50 or 60Hz, +/- 6% IEC 1000-3-4 . >0.98 10 second walk-in, max current < In x 1.2 2m lead with Schuko, UK 13A, EN60309 or Hubbell Fuse, rear panel
 OUTPUT: Output Voltage Output Voltage Regulation	115/200V or 120/208V, 3-Phase + N Steady-state: +/-2%, dynamic 0-100% step load: <3% linear load 400Hz +/- 0.1%, quartz generated 120 deg. +/- 1% -0.6 to 1 (the output neutral may be bonded to earth).
 SECURITY: Permissible Overload Output Overvoltage Cutout Output Undervoltage Cutout Thermal Overload output transformer. 	110% @ 10 min, 150% @ 5s, 200% @ 1 s 130V L-N on any one phase 100V L-N on any one phase Thermal sensors located in rectifier, inverter and
 INTERFACE: Optional RS485 or RS422 <i>MODBUS</i> high speed comr the converter to be remotely monitored. 	nunications port allows the output parameters of
 ENVIRONMENT & EQUIPMENT: Ambient Temperature Range Humidity Altitude	10 to 40 deg C . <90%, non-condensing . All specifications quoted at < 2000m above sea . < 50dBA @ 1m
 Overall Efficiency EMC. Cabinet. Front Panel. Cabinet Protection. Meters. to-ph and ph-to-neutral), Hz, Kw and power factor CE marked 	 . 85 to 91% model dependant . Better than EN55-022B . Zinc plated steel, powder coated . 5U x 19", anodised aluminium . IP21 . Digital readout for output Amps, Volts (both phr for each phase.
DIMENSIONS: Up to 4KVA rear.	19" x Height 5U x D510mm (20"), ventilation at

OPTIONS:

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

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