



LP3 Frequency Converter

An easy to use Frequency Converter, with 3kVA of variable Three Phase output



The standard unit has three phase output at up to 3kVA and can operate from a European 230V single phase supply.

Output frequency can be set by the user to any value between 45Hz and 1000Hz. Output voltage is variable from zero to a maximum in two ranges, 0-135/234V and 0-270/468V. Output current capability is doubled on the lower range.

Control of the unit is all touch button interface, with a clean concise LCD screen. The values chosen by the operator are stored by the microprocessor when the converter is switched off, and are available for immediate use on future occasion. Values can be adjusted at anytime whilst live online or offline.

The output is a pure sine wave, and is fully protected against over current conditions. In addition to the built-in output protection.

The LP3 can be supplied with an RS232 remote connector which can be connected to any PC operating on a windows platform allowing full control of the unit remotely.

This unit is available in a 19" rack mounting version or a bench unit.

Delivered equipment may differ slightly from this description, either as a result of continuous product development, or in the event of any errors not detected when this document was last updated, on 17 Aug 2010

Specification for LP3 Frequency Converter

LP3 SERIES THREE PHASE

Input 230V Single Phase, +10% +/- 6%, 45-66Hz

Output 45-1000Hz in steps of 1Hz, accuracy +/-1Hz
Capability Low Range 0-135/234V (Ph-N/Ph-Ph) 7.4A max
High Range 0-270/468V (Ph-N/Ph-Ph) 3.7A max

Current ratings are for each phase

Overload Capability	Overcurrent trip after 1 second, at >110% full load on any phase Immediate power limiting, at >2kVA on any phase
Admissible Load Power Factor	0.5 lag to 0.5 lead at full load
Output Protection	Overcurrent, short circuit, overtemperature
Regulation	Better than 5% for 0 - 100% Rated Load Better than 0.2% for 10% line voltage change
Efficiency	>70% at full load
Controls	Input On/Standby Output On/Off switch Soft touch push button control of all functions
Indications	Alpha - Numeric Display of output settings Input On and Output Ready indicators
Output Waveform (linear load)	Sinusoidal, THD better than 5% at full load
Isolation	Full, by transformer coupling of output
Electromagnetic Compatibility	CE-marked to European requirements
Stability	Better than 1% over 24 hours after 1 hour warm-up
Operating Environment	0 to +40 degrees, 0-90% non-condensing <65dbA ambient noise
Storage Environment	-15 to + 70 degrees, 0-95% non-condensing
Size and Weight	430 wide x 520 deep x 174 high, 50 kg

This specification is for a standard converter. Units with special voltage ranges will differ in output current capability.