



LP1 Frequency Converter

An easy to use SFC, with 1kVA of variable single phase output.



This data sheet describes the single phase LP Series frequency converter, with variable output voltage and frequency. Output frequency can be set to any value between 45Hz and 1kHz. Output voltage is variable from zero to maximum in two ranges, usually 0-135V and 0-270V. 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 any time 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 LP1 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.

Specification for LP1 Frequency Converter

LP1 SERIES SINGLE PHASE



Input

115V or 230V Single Phase, +10% / -6%,
with automatic selection of voltage
45-66Hz (400Hz to special order)

Output

45-1kHz in steps of 1Hz
Accuracy +/- 0.1Hz
Low Range 0-135V, 7.4A max
High Range 0-270V, 3.7A max

Overload Capability	Overcurrent trip after 1 second, at >110% full load Immediate power limiting, at >2kVA
Admissible Load Power Factor	0.5 lag to 0.5 lead at full load
Output Protection	Variable overcurrent, short circuit, overtemperature
Regulation	Better than 1% 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 for control of all functions
Indications	Alpha-Numeric Display of all settings Input On and Output Ready indicators
Output Waveform	Sinusoidal, THD better than 5% at full load
Stability	Better than 1% over 24 hours after 1 hour warm-up
Isolation	Full, by transformer coupling of output
Electromagnetic Compatibility	CE-marked to European requirements
Operating Environment	0 to +40 degrees, 0-90% non-condensing <65dBA ambient noise
Storage Environment	-15 to +70 degrees, 0-95% non-condensing
Overall Size and Weight	430mm wide x 375mm deep x 132mm high (3u), 22 kg

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

