

FREQUENCY CONVERTER

mod. **C5060** - rev. 2.0

January 2011

General Description

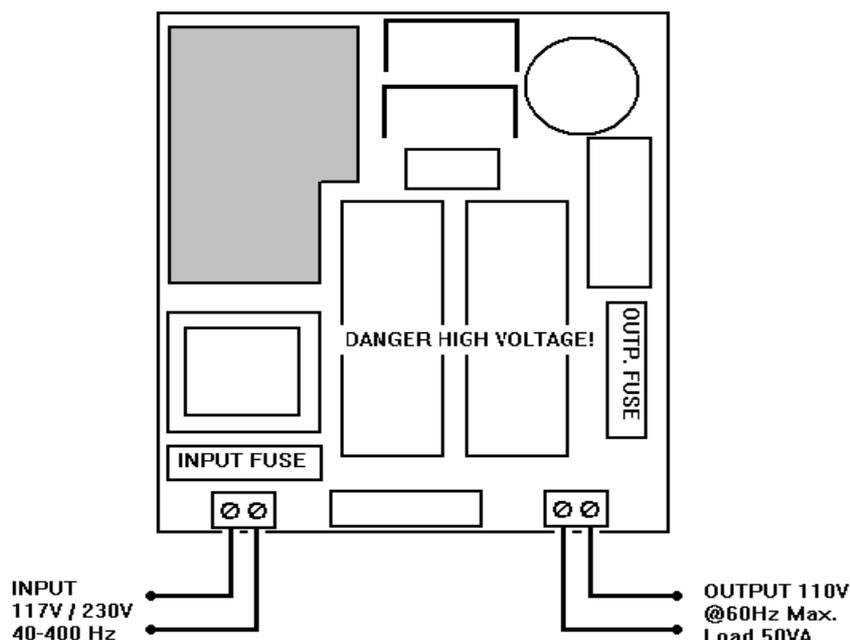
This frequency Converter is specially designed for low power applications, max 70VA. It is useful when you need to power an equipment with a different frequency from the one given by the line. The half bridge output section avoids any kind of damage to the load in case of failure/malfunction of the converter. Thanks to this feature the converter can be powered with 230Vac giving always an output of 110 Vac, without using any stepdown transformer. Fuses protect both converter input and output. The converter is managed by a microcontroller with a quartz time base which provides excellent frequency stability. The output voltage is not stabilized. We can provide also the pitch-control equipped version, which ables you the change the output frequency with a rotary encoder. Pressing the encoder, frequency comes back to the value of 60Hz. When the converter is turned off, setted frequency value is stored and recovered automatically when the converter is turned back on.

Technical Features

- Quartz base oscillator with excellent stability (20ppm)
- Switchable input voltage 117/230Vac
- Very low output sine wave distortion THD<1% C=1/√2
- High efficiency 95%
- Added features on req:
 - Opt. 1 → Pitch Control
 - Opt. 2 →Hammond organ Transpose

Applications

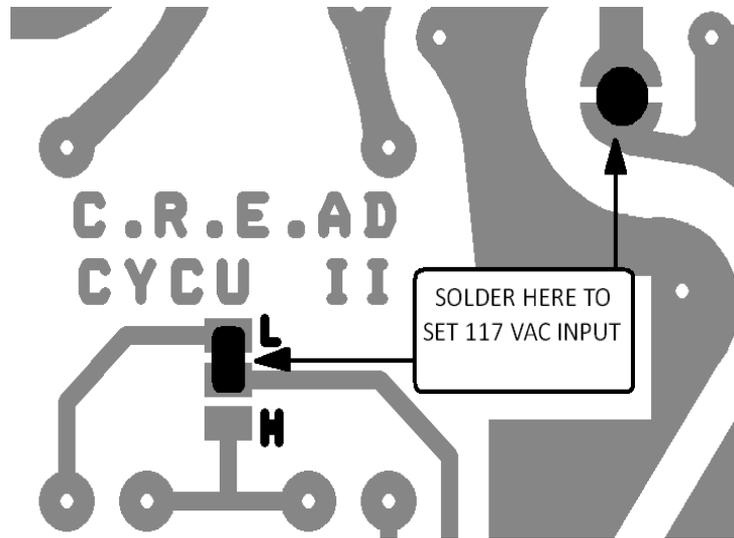
- To convert American Hammond organs to the European line frequency
- To convert electromechanical clocks, any kind of american juke-box or turntables, (no mechanical modification needed)
- To control speed in low power single phase AC motors



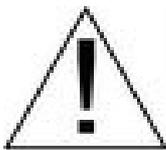
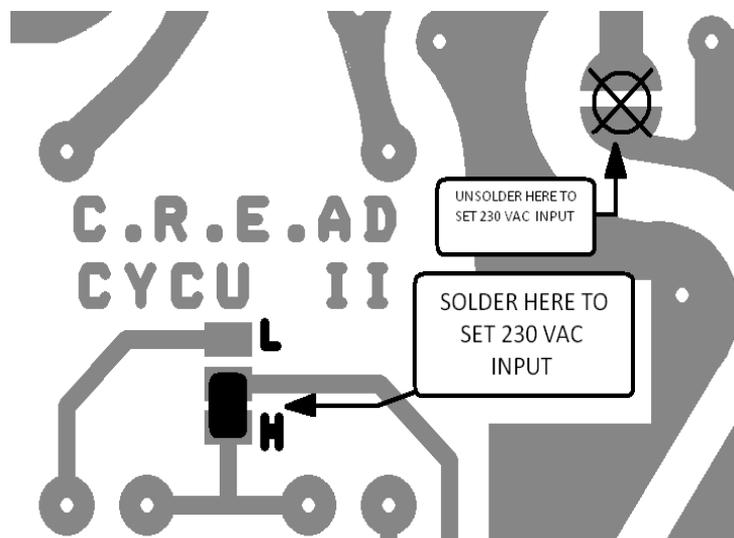
INPUT VOLTAGE SWITCH

SOLDER SIDE VIEW

117 VAC INPUT



230 VAC INPUT



CAUTION:

Converter output is not electrically isolated from the input. If needed, power the converter input with a insulation transformer.