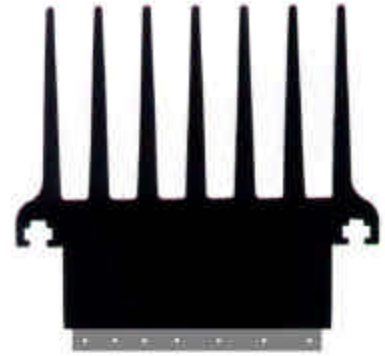




DATA SHEET

HY1420 20 WATTS



The ILP HY1420 Power Amplifier is a fully encapsulated high quality power amplifier with integral heatsink, it is designed to run off a single nominal 12 volt supply.

The Amplifier operates in Bridge Tied Load (BTL) mode to achieve a higher power output.

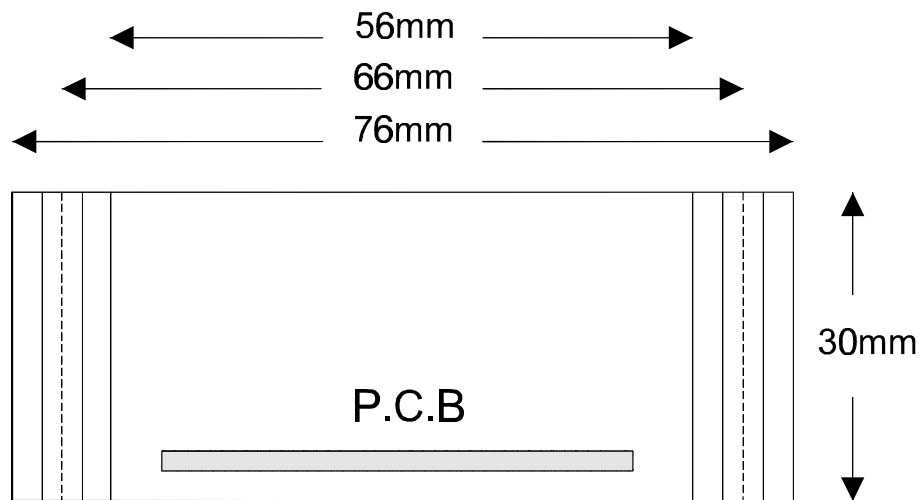
Mounting can be achieved by the use of T-slots in the heatsink and the nuts and bolts provided.

TYPICAL SPECIFICATIONS	
Parameter	Value
Output Power (4 Ω) 14.4V	20W rms. Max
Frequency Response (-3dB)	40Hz - 20kHz
Total Harmonic Distortion @ 1kHz	1.0% @ 20W
Total Harmonic Distortion @ 1kHz	0.3% @ 10W
Supply Voltage Rejection	50dB
Input Sensitivity	200mV rms.
Input Impedance	100K Ω
Load Impedance	4 - 8 Ω
D.C. Supply Voltage	8-18V
Size Width x Height x Extrusion Cut	76x75x30mm
Weight	170g

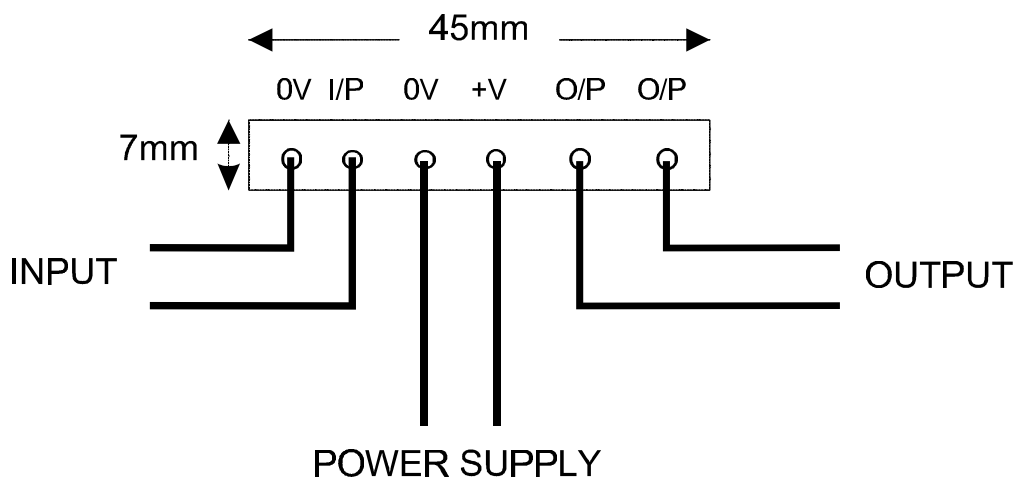
FEATURES

- Output short circuit protected
- No external components
- Reverse polarity safe
- Thermal Protection
- Integral heatsink
- Encapsulated

ELECTRICAL / MECHANICAL DETAILS AND DIMENSIONS



P.C.B. TERMINATIONS



INSTALLATION NOTES

1. For normal usage and conditions the amplifier needs no supplementary heatsink.
2. It must be mounted to allow a vertical flow of air through the fins.
3. No input capacitor is required. An internal 25V working capacitor is fitted.
4. For loudspeaker protection it is recommended that a 2.5 Amp quickblow fuse is mounted between the outputs and the speaker. The fuse rating specified has been calculated to ensure fast rupture in the event of DC being presented to the speaker. It is advised not to use a higher rated fuse.
5. The outputs must not be connected to ground.
6. With power supply leads longer than 0.4M a 470 μ F 25V is recommended across power supply input on module.