



The ILP HY2002 Power Amplifier is a fully encapsulated high quality power amplifier with Integral heatsink.

By selecting the appropriate mains transformer and the programming link on the PCB the amplifier can be used with 4 or 8Ω loads with the automatic adjustment of input sensitivity.

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	75W rms. Max	
Frequency Response (-3dB)	15Hz - 50kHz	
Total Harmonic Distortion @ 1kHz	0.005%	
Signal to Noise Ratio (DIN AUDIO)	100dB	
Slew Rate typical	15V/μS	
Rise Time	5μ S	
Input Sensitivity	500mV rms.	
Input Impedance	100Κ Ω	
Damping Factor(8Ω @ 100Hz)	>400	
Load Impedance (programmable)	4 or 8 Ω	
Maximum D.C. rails (8 Ω load)	±40V	
Size Width x Height x Extrusion Cut	120x85x30mm	
Weight	295g	

POWER SUPPLY REQUIREMENTS

- FEATURES
- Programmable 4 or 8Ω operation
- Enhanced specifications
- Anti-thump Circuitry
- Integral heatsink
- Thermal Protection
- PTH Circuit Board
- Encapsulated

ILP have developed a range of Hi-Fi quality Low noise Audio Power Toroidal Transformers for the HY2002 they are Low Profile with Resin filled centres for maximum noise absorption and ease of mounting. Finished in black to match the amplifiers these transformers are the ideal choice to power the HY2002.

Mode	Transformer	RMS Supply Voltage	Size	Weight
4 Ω	AT0604	20 - 0 - 20v	108x40mm	1.75Kg
8 Ω	AT0608	28 - 0 - 28v	108x40mm	1.75Kg

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ELECTRICAL / MECHANICAL DETAILS AND DIMENSIONS 96mm 107mm 120mm 30mm P.C.B P.C.B.TERMINATIONS 85mm LINK I/P O/V 0/V +V -V OUTPUT 00 7mm 0 OUTPUT FUSE INPUT POWER SUPPLY MAINS

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 100V working capacitor is fitted.
- 4. For loudspeaker protection it is recommended that a quickblow fuse is mounted between the output 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 amplifier module is supplied in 4Ω mode. To set 8Ω mode simply make a link between the two pads marked 'link'.
- 6. For 4Ω mode use a 2.5A quickblow fuse and for 8Ω a 2.0A quickblow fuse.