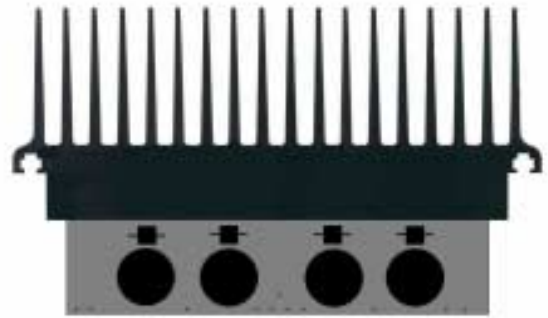




# DATA SHEET

## HY2007 240 WATTS



The ILP HY2007 Power Amplifier is a fully encapsulated high quality power amplifier with Integral Power Supply and heatsink.

Using the latest Lateral MOSFET's ensures a robust amplifier with excellent sonic characteristics.

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                        | 300W rms. Max |
| Frequency Response (-3dB)           | 15Hz - 50kHz  |
| Total Harmonic Distortion @ 1kHz    | 0.005%        |
| Signal to Noise Ratio (DIN AUDIO)   | 100dB         |
| Slew Rate typical                   | 50V/ $\mu$ S  |
| Rise Time                           | 5 $\mu$ S     |
| Input Sensitivity                   | 500mV rms.    |
| Input Impedance                     | 100K $\Omega$ |
| Damping Factor(4 $\Omega$ @ 100Hz)  | >400          |
| Load Impedance                      | 4 $\Omega$    |
| Maximum D.C. rails                  | $\pm$ 60V     |
| Size Width x Height x Extrusion Cut | 190x120x80mm  |
| Weight                              | 1490g         |

- FEATURES
- Enhanced specifications
- Integral Power Supply
- Anti-thump Circuitry
- Integral heatsink
- Thermal Protection
- PTH Circuit Board
- Encapsulated

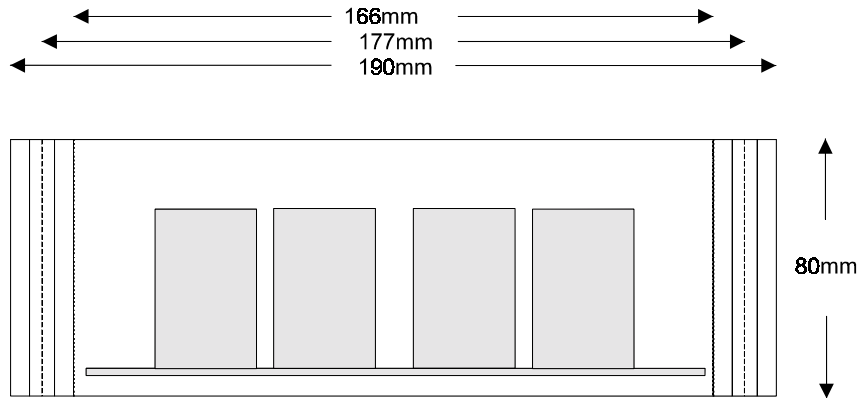
### POWER SUPPLY REQUIREMENTS

ILP have developed a Hi-Fi quality Low noise Audio Power Toroidal Transformers for the HY2007 which is Low Profile with Resin filled centre for maximum noise absorption and ease of mounting. Finished in black to match the amplifiers this transformer is the ideal choice to power the HY2007.

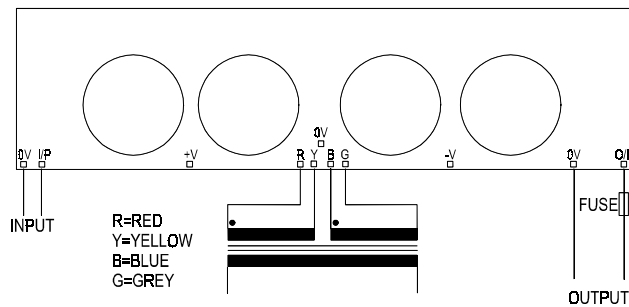
| Mode       | Transformer | RMS Supply Voltage | Size     | Weight |
|------------|-------------|--------------------|----------|--------|
| 4 $\Omega$ | AT2404      | 40 - 0 - 40v       | 130x55mm | 4.0Kg  |

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# ELECTRICAL / MECHANICAL DETAILS AND DIMENSIONS INSTALLATION NOTES



## P.C.B TERMINATIONS



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 is designed for 4Ω loads and a 5A quickblow fuse is recommended.