

“Spatial Delivery!”



**MOVING FORWARD in 3D:** Music is a thrilling blend of tone, attitude and technique. When the right combination occurs, magic happens and it's experienced by everyone.

Every 3<sup>RD</sup> POWER amplifier is created with the sole purpose of helping you tell your musical story - IN 3D!!!

## System Features

- **3RD POWER direcDRIV™ Proprietary Technology**
  - Delivers rich, complex distortion tones with unmatched dynamic range and articulation
- **Proprietary 3x12" Speaker Enclosure Design**
  - Delivers “point-source” performance without the “beaming” and comb-filtering of typical rectangle enclosure designs
- **Proprietary Tone Stack Design**
  - User-selectable tone stack design delivers a new tonal palette or classic tones at the flip of a switch
- **Hand Wired PTP made in the USA**
  - Hand selected, hand wired component assembly
- **Preamp Out/Power Amp In**
  - Ideal for Line-Level effects insertion
- **Dual Output Level Controls, Foot Switch Selectable**
  - Easily establish and control your rhythm and lead volume levels
- **Line Output Jack with Signal Level Control**
  - Tapped directly from the output transformer, an excellent source for slave amp setups

## Specifications

HLH HD100 Amplifier

**Component Structure:** Hand selected, hand-wired PTP

**Output Architecture:** (4) EL34s, solid-state rectified

**Plate Voltage:** 120V AC input yields ~465 V DC plate voltage

**Power Output:** 100 watts

**Output Impedance:** Discreet 16, 8 and 4 Ohm outputs

**Input Architecture:** AC biased (3) 12AX7s

**Dimensions (WxHxD):** 29 x 10.75 x 8.375 in.

**Weight:** 41 lb.

HLH 312 Cabinet

**Speakers:** (3) Celestion Vintage 30s

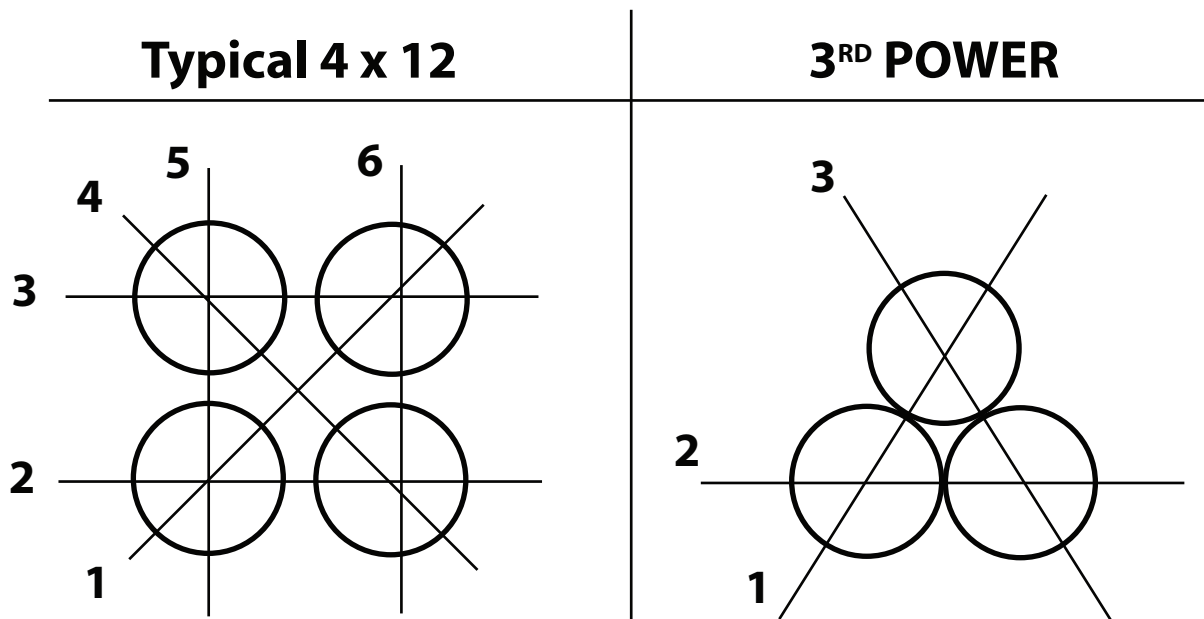
**Electrical Circuit:** Parallel AC type

**Enclosure Impedance:** Nominal 8 Ohms

**Power Handling:** 180 Watts

**Dimensions (WxHxD):** 33.8125 x 29.884 x 15.5 in.

**Weight:** 71 lb.



**POINT-SOURCE and PHASE COHERENCY**

A “point-source” effect is created when speakers are arranged such that the listener experiences focused sound coming from a specific location. Phase-coherent dispersion allows for full-frequency sound to travel greater distances and cover a larger area with less loss due to phase distortion or phase collision.

Due to the proprietary cabinet design and speaker arrangement of the HLH 312 speaker enclosure from 3RD POWER, guitarists will enjoy a wide frequency range, full sound output throughout the entire listening area - all without the dull and loud “beams” associated with typical 4x12 speaker enclosures.

The figure above illustrates the six primary arrays that occur in typical 4x12 enclosures. These often interact with each other such that significant phase distortion and array collisions occur. This interaction degrades the radiated sound waves resulting in sound that dramatically changes in quality as you walk around.

With only three primary arrays, the HLH312 enclosure delivers a 50% improvement over the typical 4x12. Additionally, speaker location is concentrated - further enhancing the “point-source” effect.

By eliminating parallel cabinet walls (aside from the front and back baffle), the HLH312 reduces internal standing waves allowing the cabinet and the speakers to work together more efficiently with increased depth and tightness of the bass frequencies.

The result is an amazingly rich, thick guitar tone that's smooth and even sounding throughout the entire performance area.