## DSP Power Amplifiers

Over the years, one of the most amazing advances in technology in pro audio has come in the form of the modern power amplifier. Long gone are the days when the glass ceiling of 1 per watt seemed unbreakable. Meanwhile, amplifiers have incorporated Class D switching power supplies to reduce weight and size, and at the same time, networking and onboard digital signal processing have made these powerhouses more versatile and flexible than ever.

<table>
<thead>
<tr>
<th><strong>Model</strong></th>
<th><strong>website</strong></th>
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<tbody>
<tr>
<td>Ashly IXP</td>
<td>ashy.com</td>
</tr>
<tr>
<td>Atlas DPA</td>
<td>atlasdp.com</td>
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<tr>
<td>Crown I-Tech</td>
<td>crownaudio.com</td>
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<tr>
<td>dB audiotechnik</td>
<td>dbaudi.com</td>
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<tr>
<td>L-Acoustics</td>
<td>l-acoustics.com</td>
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<tr>
<td>Peavey</td>
<td>powerhouse-audio.com</td>
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<td>QSC</td>
<td>qsc.com</td>
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### Crown I-Tech HD Series
- **Model**: I-Tech 4x3500HD
- **Channels**: 4
- **Power/channel**: 3,500 Watts @ 4 ohms
- **Dimensions (HxWxD)**: 3.5 x 19 x 11.7”
- **Weight**: 14.6 pounds
- **Networking**: None
- **I/O**: XLR, HDMI, 4x DSP inputs, Speaker outs, USB preamp loading
- **DSP**: Optimized for use with dB audiotechnik systems

### dB audiotechnik D Series
- **Model**: D60
- **Channels**: 2
- **Power/channel**: 1,000 Watts @ 4 ohms
- **Dimensions (HxWxD)**: 3.5 x 19 x 17.9”
- **Weight**: 24 pounds
- **Networking**: None
- **I/O**: XLR, 4x DSP inputs, Speaker outs, USB preamp loading
- **DSP**: Optimized for use with dB audiotechnik systems

### Electro-Voice TG Series
- **Model**: TG Series
- **Channels**: 2
- **Power/channel**: 2,500 Watts @ 4 ohms
- **Dimensions (HxWxD)**: 3.5 x 19 x 20"  
- **Weight**: 22 pounds
- **Networking**: None
- **I/O**: XLR, 6x DSP inputs, Speaker outs, USB preamp loading
- **DSP**: Optimization for use with Electro-Voice TG series

## Power Amplifiers Specifications

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<tr>
<th><strong>Model</strong></th>
<th><strong>website</strong></th>
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</thead>
<tbody>
<tr>
<td>Axiom QC</td>
<td>axiomproaudio.com</td>
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<tr>
<td>Bose PowerMatch</td>
<td>pro.bose.com</td>
</tr>
<tr>
<td>Community ALC</td>
<td>communitypro.com</td>
</tr>
<tr>
<td>LEA Dante Connect</td>
<td>leaprofessional.com</td>
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<tr>
<td>Linea Research</td>
<td>linea-research.co.uk</td>
</tr>
<tr>
<td>Peerless NXAMP</td>
<td>labgruppen.com</td>
</tr>
</tbody>
</table>

### Axiom QC Series
- **Model**: QC Series
- **Channels**: 4
- **Power/channel**: 2,400 Watts @ 4 ohms
- **Dimensions (HxWxD)**: 3.5 x 19 x 20.9”
- **Weight**: 20.8 pounds
- **Bridgeable**: Yes
- **Networking**: Ethernet, Dante
- **I/O**: 4x4 matrix mixer, crossover, delay; limiters, MTP/BLA; crossover, delay; limiters

### Bose PowerMatch
- **Model**: PM8500N
- **Channels**: 4
- **Power/channel**: 2,000 Watts @ 4 ohms
- **Dimensions (HxWxD)**: 3.5 x 19 x 14"  
- **Weight**: 17.5 pounds
- **Networking**: Ethernet
- **I/O**: Dante and AES3 digital input
- **DSP**: 96kHz, 3-stage parametric equalizer, delays, crossover, 2x4 or 4x4 matrix mixer, crossover, delay; limiters, crossover, delay; limiters

### Community ALC
- **Model**: ALC-1604D
- **Channels**: 4
- **Power/channel**: 500 Watts @ 4 ohms
- **Dimensions (HxWxD)**: 3.5 x 19 x 17’’
- **Weight**: 22 pounds
- **Networking**: None
- **I/O**: Speaker inputs and outputs
- **DSP**: Optional for use with L-Acoustics systems

### LEA Dante Connect Series
- **Model**: Connect 704D
- **Channels**: 4
- **Power/channel**: 700 Watts @ 4 ohms
- **Dimensions (HxWxD): 3.5 x 19 x 14’’
- **Weight**: 20.8 pounds
- **Networking**: Ethernet, Dante
- **I/O**: 96kHz, peak, peaking, 2x4 or 4x4 matrix mixer, crossover, delay; limiters

### Linea Research 44M Series
- **Model**: 44M20
- **Channels**: 4
- **Power/channel**: 3,300 Watts @ 4 ohms
- **Dimensions (HxWxD): 3.5 x 19 x 16’’
- **Weight**: 28 pounds
- **Networking**: Ethernet
- **I/O**: Dante and AES3 digital input
- **DSP**: 3,000 Watts, input, crossover, 2x4 or 4x4 matrix mixer, crossover, delay; limiters

### Peerless NXAMP
- **Model**: NXAMP64
- **Channels**: 4
- **Power/channel**: 2,500 Watts @ 4 ohms
- **Dimensions (HxWxD): 3.5 x 19 x 16’’
- **Weight**: 27 pounds
- **Networking**: Ethernet
- **I/O**: 2x4 or 4x4 matrix mixer, crossover, delay; limiters
- **DSP**: Optimization for use with NXAMP series

### Powersoft X-Series
- **Model**: X-Series
- **Channels**: 8
- **Power/channel**: 2,600 Watts @ 4 ohms
- **Dimensions (HxWxD): 3.5 x 19 x 16’’
- **Weight**: 22 pounds
- **Networking**: None
- **I/O**: XLR inputs and outputs
- **DSP**: Optimization for use with NXAMP series

### QSC PLD Series
- **Model**: PLD-4.5
- **Channels**: 4
- **Power/channel**: 1,200 Watts @ 4 ohms
- **Dimensions (HxWxD): 3.5 x 19 x 16’’
- **Weight**: 22 pounds
- **Networking**: USB port for Amplifier Navigator software
- **I/O**: 4x4 or 2x4 matrix mixer, crossover, speaker outs, USB preamp loading
- **DSP**: Optimization for use with PLD-4.5 series

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*Note: The specifications provided are for reference only and may vary depending on the specific model and configuration.*
### Samson SXD Series
- **Top Model:** SXD7000
  - **Topology:** Class-D
  - **Channels:** 2
  - **Power/channel:** 1,000 Watts @ 4 ohms
  - **Bridgeable:** No
  - **Dimensions (HxWxD):** 3.5 x 19 x 13”
  - **Weight:** 33 pounds
  - **I/O:** XLR/TRS inputs; Speakon, binding post outputs
  - **Networking:** Yes
  - **DSP:** Crossover, filter, EQ, limiter, delay

### Voice-Acoustic HDSP Series
- **Top Model:** HDSP-4D
  - **Topology:** Class-D
  - **Channels:** 6
  - **Power/channel:** (2) 2,400 Watts + (4) 800W @ 4 ohms
  - **Bridgeable:** No
  - **Dimensions (HxWxD):** 3.5 x 19 x 17”
  - **Weight:** 16 pounds
  - **I/O:** XLR analog and AES digital; Speakon outs
  - **Networking:** Dante, Ethernet
  - **DSP:** Integrated loudspeaker management

### VUE Audiotecnik VUE Drive
- **Top Model:** V6-D
  - **Topology:** Class-D
  - **Channels:** 6
  - **Power/channel:** (2) 1,600 Watts + (4) 550W @ 4 ohms
  - **Bridgeable:** No
  - **Dimensions (HxWxD):** 3.5 x 19 x 16”
  - **Weight:** 25.2 pounds
  - **I/O:** Analog XLR/AES/Dante; Speakon outs
  - **Networking:** Ethernet control
  - **DSP:** Optimized for use with VUE line array systems

### XTA APA Series
- **Top Model:** 4E8
  - **Topology:** Class-D
  - **Channels:** 4
  - **Power/channel:** 3,400 Watts
  - **Bridgeable:** Yes
  - **Dimensions (HxWxD):** 3.5 x 19 x 19.6”
  - **Weight:** 33 pounds
  - **I/O:** AES inputs (analog/network inputs optional); Speakon outs
  - **Networking:** Yes
  - **DSP:** Adaptive processing plus 96kHz filtering, EQ, FI, phase linearization, limiting, crossover and matrix routing.

### Yamaha TXN Series
- **Top Model:** TX6n
  - **Topology:** Proprietary EE Engine
  - **Channels:** 2
  - **Power/channel:** 3,000 Watts @ 4 ohms
  - **Bridgeable:** Yes
  - **Dimensions (HxWxD):** 3.5 x 19 x 18.15”
  - **Weight:** 35.3 pounds
  - **I/O:** XLR analog (AES optional); Speakon/binding post outs
  - **Networking:** Optional EtherSound and CobraNet cards
  - **DSP:** Limiters, crossovers, delays, input and output parametric EQs, filters, horn compensation EQ.

### Mini 4”-6” Line Arrays
Most of the audio headlines revolve around large line arrays, yet in many applications, a smaller-format approach is the ideal solution. We present the latest in mini-sized systems.