

DSP Power Amplifiers

By George Petersen

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.

Axiom Pro Audio QC Series



Top Model: QC4.4
Topology: Class-D
Channels: 4 or 2 (bridged)
Power/channel: 1,000 Watts @ 4 ohm
Bridgeable: Yes
Dimensions (HxWxD): 3.5 x 19 x 16.2"
Weight: 24.3 pounds
I/O: XLR; Speakon
Networking: Yes.
DSP: 96k Hz / 40-bit floating point SHARC

axiomproaudio.com

Crest Audio Pro-LITE Series



Top Model: Pro-LITE 7.5 DSP
Topology: Class-D
Channels: 8
Power/channel: 2,810 Watts @ 4 ohms
Bridgeable: Yes; 2/4/8 channels
Dimensions (HxWxD): 3.5 x 19 x 17"
Weight: 14.6 pounds
I/O: TRS/XLR inputs; Speakon outs.
Networking: None.
DSP: Delay, parametric EQ, limiters, crossovers, high-pass filter, crossovers, HF driver EQ, Waves MaxxBass harmonic enhancer.

crestaudio.com

Ashly Audio nXp Series



Top Model: nXp 3.04
Topology: Class-D
Channels: 4
Power/channel: 2,000 Watts @ 4 ohms
Bridgeable: Yes, four into two channels.
Dimensions (HxWxD): 3.5 x 19 x 16.84"
Weight: 28 pounds
I/O: Euroblock 3.5mm, TRS/XLR inputs; Speakon outs
Networking: Ethernet control; optional CobraNet or Dante and AES3 digital input.
DSP: 32-bit SHARC, with dynamics, gain, EQ, 2x4 or 4x4 matrix mixer, crossover, delay, metering and signal generator functions.

ashly.com

Bose Pro PowerMatch



Top Model: PM8500N
Topology: Class-D
Channels: 8
Power/channel: 500 Watts
Bridgeable: Yes
Dimensions (HxWxD): 3.5 x 19 x 20.7"
Weight: 28.4 pounds
I/O: Phoenix inputs and outputs
Networking: Yes.
DSP: Optimized for use with Bose systems

pro.bose.com

Crown I-Tech HD Series



Top Model: I-Tech 4x3500HD
Topology: Class-I (BCA)
Channels: 4
Power/channel: 2,400 Watts @ 4 ohms
Bridgeable: Yes; four into two channels.
Dimensions (HxWxD): 3.5 x 19 x 17"
Weight: 29 pounds
I/O: XLR inputs (analog and AES); Speakon or binding posts
Networking: CobraNet, HiQnet and Ethernet; USB for preset loading
DSP: Onboard 24-bit/192 kHz BSS OmniDriveHD

crownaudio.com

Atlas Sound DPA2402



Top Model: DPA2402
Topology: Class-D
Channels: 1/2/4
Power/channel: 500 Watts @ 4 ohms
Bridgeable: Yes
Dimensions (HxWxD): 3.5 x 19 x 14.5"
Weight: 20.8 pounds
I/O: Euroblock 3.5mm; barrier strip outs
Networking: Ethernet; Dante optional
DSP: Level controls, EQ, limiters, HP/LP filters, delay

atlasied.com

Community ALC



Top Model: ALC-1604D
Topology: Class-D
Channels: 4
Power/channel: 1,400 Watts @ 4 ohms
Bridgeable: Yes
Dimensions (HxWxD): 1.75 x 19 x 14.4"
Weight: 17.3 pounds
I/O: Phoenix inputs and outs
Networking: Ethernet; Dante
DSP: FIR/IIR, peaking, shelving, HP/LP filters; crossovers; delay; limiters

communitypro.com

d&b audiotechnik D Series



Top Model: D80
Topology: Class-D
Channels: 4
Power/channel: 4,000 Watts @ 4 ohms
Bridgeable: Yes
Dimensions (HxWxD): 3.5 x 19 x 20.9"
Weight: 42 pounds
I/O: XLR; NL4/NL8
Networking: Yes, Ethernet, AES70
DSP: Optimized for use with d&b audiotechnik systems

dbaudio.com

Electro-Voice TG Series



Top Model: TG7
Topology: Class-H
Channels: 2
Power/channel: 2,500 Watts @ 4 ohms
Bridgeable: Yes
Dimensions (HxWxD): 3.5 x 19 x 20"
Weight: 32 pounds
I/O: XLR inputs; binding post and Speakon outs
Networking: Optional
DSP: Optional DSP and control module

electrovoice.com

LEA Dante Connect Series



Top Model: Connect 704D
Topology: Class-D
Channels: 4
Power/channel: 700 Watts @ 4 ohms
Bridgeable: Yes
Dimensions (HxWxD): 1.75 x 19 x 14.25"
Weight: 15.5 pounds
I/O: (4) balanced analog; 8x8 Dante
Networking: Wi-Fi or 100MB Ethernet
DSP: 96k Hz/32-bit — PEQ, delays, SRC, crossovers

leaprofessional.com

Peavey IPR2 Series



Top Model: IPR2 7500
Topology: Class-D
Channels: 2
Power/channel: 2,800 Watts @ 4 ohms
Bridgeable: Yes
Dimensions (HxWxD): 3.5 x 19 x 17"
Weight: 14.6 pounds
I/O: TRS/XLR inputs; Speakon outs.
Networking: No
DSP: Delay, parametric EQ, crossovers, high-pass filter, limiter, crossovers, HF driver EQ, Waves MaxxBass harmonic enhancer.

peavey.com

L-Acoustics LA Series



Top Model: LA12X
Topology: Class-D
Channels: 4
Power/channel: 2,600 Watts @ 4 ohms
Bridgeable: No
Dimensions (HxWxD): 3.5 x 19 x 17.9"
Weight: 32 pounds
I/O: Analog, AES and AVB; 8-point CA-COM and Speakon outs
Networking: Yes
DSP: Optimized for use with L-Acoustics systems

l-acoustics.com

Linea Research 44M Series



Top Model: 44M20
Topology: Class-D
Channels: 4
Power/channel: 3,000 Watts @ 4 ohms
Bridgeable: Yes
Dimensions (HxWxD): 3.5 x 19 x 14"
Weight: 27.5 pounds
I/O: Analog XLR, AES3, Dante/AES67 (optional); Speakons
Networking: Ethernet
DSP: Routing, delay, gain, PEQ, HPF, phase, mute, limiting

linea-research.co.uk

Powersoft X-Series



Top Model: X8
Topology: Class-D
Channels: 8
Power/channel: 3,000 Watts @ 4 ohms
Bridgeable: Yes
Dimensions (HxWxD): 1.75 x 19 x 18.7"
Weight: 26.5 pounds
I/O: XLR analog/AES3 inputs; Speakon outs.
Networking: Dante and Ethernet options and control/monitoring via Armonia Pro Audio Suite software
DSP: DSP option adds limiters, delays, crossovers, HP/ bandpass filters, EQs

powersoft-audio.com

Lab.gruppen PLM+ Series



Top Model: PLM 20K44
Topology: Class-TD
Channels: 4
Power/channel: 4,400 Watts @ 4 ohms
Bridgeable: Yes
Dimensions (HxWxD): 3.5 x 19 x 18.1"
Weight: 37 pounds
I/O: XLR inputs (AES and analog); binding post outs
Networking: Ethernet, Dante
DSP: (4) Lake Processing modules, each with delays, crossovers, EQ and limiting

labgruppen.com

Nexo NXAMP Series



Top Model: NXAMP4x4
Topology: Class-D
Channels: 4
Power/channel: 3,300 Watts @ 4 ohms
Bridgeable: Yes
Dimensions (HxWxD): 7 x 19 x 18"
Weight: 49 pounds
I/O: XLR; Speakon
Networking: Optional
DSP: Optimized for NEXO speaker systems

nexo-sa.com

QSC PLD Series



Top Model: PLD 4.5
Topology: Class-D
Channels: 4
Power/channel: 1,250 Watts @ 4 ohms
Bridgeable: Yes
Dimensions (HxWxD): 3.5 x 19 x 16"
Weight: 22 pounds
I/O: XLR inputs; Speakon outs.
Networking: USB port for Amplifier Navigator software
DSP: Limiters, crossovers, PEQ, filters, delays and Intrinsic Correction

qsc.com

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

samsontech.com

Voice-Acoustic HDSP Series



Top Model: HDSP-6D
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

voice-acoustic.de

VUE Audiotechnik 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

vueaudio.com

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.

audiocore.co.uk

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.

yamahaca.com

NEXT MONTH



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