

DA15.2

2-Channel High-Performance Class-D Amplifier



Applications

- High-output full-range loudspeakers
- High-output Subwoofer amplification
- Touring and rental production systems
- Nightclubs, DJs, and live venues
- Houses of worship and performance spaces
- Arenas, event spaces, and mobile stages

Overview

The Sound Barrier DA15.2 is a high-power 2-channel Class-D amplifier engineered for demanding professional audio applications requiring maximum output, efficiency, and reliability.

Designed with advanced switching power supply and active Power Factor Correction (PFC), the DA15.2 delivers exceptional output performance while maintaining high efficiency and reduced thermal load. Its robust design and high current capability make it ideal for driving subwoofers and large-format speaker systems in both touring and installed environments.

With selectable gain settings, multiple operating modes (Stereo, Bridge, Mono), and comprehensive protection circuitry, the DA15.2 ensures stable operation even under extreme conditions.

Features

High Output Performance

- Extremely high power density for demanding systems
- Optimized for subwoofer and large-format speaker applications
- Stable operation down to low impedance loads

Efficient Class-D Design

- Advanced Class-D topology with >80% efficiency
- Reduced heat generation and lower operating costs
- Lightweight compared to traditional amplifiers

Advanced Power Supply

- 100–240V universal power input
- Active Power Factor Correction (PFC)
- Stable global operation with improved energy efficiency

Flexible System Integration

- Stereo, Bridge, and Mono operating modes
- Selectable gain settings (32dB – 41dB)
- Compatible with a wide range of signal sources and DSP systems

Tour-Ready Construction

- Rugged chassis for touring and installation
- Ideal for mobile racks and fixed installs

Cooling & Reliability

- Front-to-rear airflow cooling system
- Temperature-controlled fans
- Thermal protection with auto-recovery

Comprehensive Protection

- Over-temperature protection
- DC protection
- Short circuit protection
- Overload limiter
- Undervoltage protection

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Channel Handling	
Number of output channels	2 x Neutrik® Speakon® (NL4)
Number of input channels: Analog	2 x Balanced XLR inputs
Operating modes	Stereo / Mono / Bridge
Bridgeable output channels	One Bridged Pair Possible
Minimum load: Stereo / Mono	2Ω minimum
Minimum load: Bridge	4Ω minimum
Audio	
Gain	Selectable 41dB / 38dB / 35dB / 32dB
Input sensitivity at 41dB gain	1.65V RMS
Input sensitivity at 38dB gain	2.33V RMS
Input sensitivity at 35dB gain	3.30V RMS
Input sensitivity at 32dB gain	4.66V RMS
Default gain	typical: 0.01% (10% rated power, 8Ω)
Damping factor @ 8Ω	> 5000 (8Ω, 20Hz–200Hz)
Frequency response	Typical: +0 / -0.5dB (10% rated power, 20Hz–20kHz, 8Ω)
Crosstalk	≥90dB (20Hz–1kHz, below rated power)
THD+N	Typical: 0.01% (10% rated power, 8Ω)
Input impedance	20kΩ balanced / 10kΩ unbalanced
Signal LED threshold	Green when input signal is greater than -32dB
Clip / limiter indication	Yellow when output distortion is >1% or power is compressed
Output Stage	
Rated output power @ 8Ω Stereo	2 x 4000W
Rated output power @ 4Ω Stereo	2 x 7500W
Rated output power @ 2Ω Stereo	2 x 8500W
Rated output power @ 16Ω Bridge	1 x 8000W
Rated output power @ 8Ω Bridge	1 x 15000W
Rated output power @ 4Ω Bridge	1 x 18000W
Output RMS voltage	178.9V RMS
Output connector type	Neutrik® Speakon® (NL4)
AC Mains Power	
Nominal AC input (±10%)	100–240 V @ 50/60Hz
Power supply design	Universal Switching Power Supply
Power factor correction	Active PFC (Power Factor Correction)
Power cord gauge	12 AWG
Idle consumption / standby input power	150W

Power Consumption & Heat	
Standby line current	0.7A @ 220V / 1.4A @ 110V
Standby power in / out / dissipated	150.0W / 0.0W / 150.0W
1/8 power @ 8Ω/ch line current	6.2A @ 220V / 12.3A @ 110V
1/8 power @ 8Ω/ch power in / out / dissipated	1354.8W / 1000.0W / 354.8W
1/8 power @ 4Ω/ch line current	9.5A @ 220V / 18.9A @ 110V
1/8 power @ 4Ω/ch power in / out / dissipated	2081.8W / 1700.0W / 381.8W
1/3 power @ 8Ω/ch line current	13.9A @ 220V / 27.7A @ 110V
1/3 power @ 8Ω/ch power in / out / dissipated	3048.6W / 2666.7W / 381.9W
1/3 power @ 4Ω/ch line current	24.1A @ 220V / 48.2A @ 110V
1/3 power @ 4Ω/ch power in / out / dissipated	5301.5W / 4533.3W / 768.2W
Thermal	
Operating temperature	32°F – 104°F (0°C – 40°C)
Cooling	Front-to-rear Airflow;
Fan control	Temperature-controlled fan
Thermal limiting threshold	185°F (85°C)
Thermal shutdown threshold	194°F (90°C)
Side clearance requirement	2.0 in (5cm)
Rear clearance requirement	3.9 in (10cm)
Construction	
Dimensions (W x H x D)	19.02 x 1.77 x 18.31 in (483 x 45 x 465 mm)
Rack width	19.02 in (483 mm)
Height	1.77 in (45 mm)
Depth	18.31 in (465 mm)
Rack space	1U
Net weight	29 lb (13 kg)
Included accessories	Power cord, user manual, 4 rubber feet
Signal-sensitive equipment spacing	7.9 in (20cm) minimum preferred
Protection circuits	Under voltage, DC, over temperature, overload, short circuit
Limiter functions	Over-temperature limiter, overload limiter, short limiter
PWR LED green	Power switch on
PWR LED yellow	Temperature limiter active
SIG LED green	Input signal greater than -32dB
SIG LED yellow	Output distortion >1% or power compression
SIG LED red	Protection condition

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