

BA-2500D

Class-D Two-Channel Power Amplifier

19" 1U • 2 × 500 W • 100 V / 4–16 Ω • Class-D



Front Panel



2 × 500 W
Class-D



100 V & 4–16 Ω
Outputs



85% Efficiency
Auto Standby



19" 1U
Rack Mount



Balanced
Phoenix Inputs



Full
Protection

Description

The BA-2500D Class-D two-channel power amplifier uses switching power technology for high efficiency (up to 85%) and minimum power consumption, saving rack space and running cooler for a longer service life. With a rated output of 2 × 500 W, it can serve as a two-zone, multi-source public address system at minimum cost. Its 100 V high-impedance and 4–16 Ω low-impedance outputs suit both fixed PA installations and hi-fi stereo systems.

Key Features

- ✓ Class-D digital power amplifier with switching power supply technology.
- ✓ High efficiency up to 85%, with minimum power consumption and less heat.
- ✓ Two-channel amplifier in a 19" rack-mount, 1U chassis.
- ✓ Rated power output: 2 × 500 W.
- ✓ Two separate speaker outputs per channel: 100 V line and 4–16 Ω low impedance.
- ✓ Balanced line inputs on Phoenix connectors, each with its own gain control.
- ✓ Switchable high-pass / low-pass filter on each channel (DIP switch).
- ✓ Auto standby after one minute without signal, with instant wake-up on input.
- ✓ Separate channel indicators for protection, clip, input and output.
- ✓ Full protection: short circuit, overload and high temperature.
- ✓ AC input switchable between 115 V and 230 V; 24 V DC input available on request.

Tender Specification

The power amplifier shall be a Class-D two-channel unit with switching power supply, in a 19" 1U rack-mount chassis, with efficiency up to 85%. Rated output shall be 2 × 500 W, with separate 100 V and 4–16 Ω speaker outputs per channel. Each channel shall have a balanced Phoenix input (0.775 V, 10 kΩ) with its own gain control and a switchable filter. Frequency response shall be 20 Hz – 20 kHz (+1/-2 dB), with THD < 0.1%, S/N ratio > 80 dB and crosstalk > 60 dB. It shall include auto standby, protection / clip / input / output indicators, and short-circuit, overload and over-temperature protection. It shall operate from AC 115 V / 230 V switchable (24 V DC optional), consume 1100 W, measure 482 × 420 × 44 mm and weigh 8.5 kg.



Specifications

Model	BA-2500D
Description	Class-D Two-Channel Power Amplifier
Rated Power Output	2 × 500 W
Speaker Output	4–16 Ω & 100 V
Frequency Response	Filter off: 20 Hz – 20 kHz (+1/-2 dB) Filter on: 70 Hz – 10 kHz (+1/-3 dB)
Input	0.775 V (0 dBu), balanced, Phoenix connector
Input Impedance	10 kΩ
THD	< 0.1% (1 kHz / -3 dBV)
S/N Ratio	> 80 dB
Crosstalk	> 60 dB (1 kHz, max. output)
Power Consumption	1100 W
Power Supply	AC 115 V / 230 V switchable, 50–60 Hz 24 V DC input optional on request
Dimensions (W × D × H)	482 × 420 × 44 mm
Net Weight	8.5 kg

Rear Panel



Applications



Voice Evacuation

Schools, Airports, Train Stations



Education & Training

Classrooms, Lecture Halls



AV Control Systems

Hotels, Convention Centres