

## BA-2120D

### Class-D Two-Channel Power Amplifier

19" 1U • 2 × 120 W • 100 V / 4–16 Ω • Class-D



Front Panel



2 × 120 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-2120D 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 × 120 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 × 120 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 × 120 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 300 W, measure 482 × 420 × 44 mm and weigh 7.0 kg.



## Specifications

| Model                  | BA-2120D                                                                      |
|------------------------|-------------------------------------------------------------------------------|
| Description            | Class-D Two-Channel Power Amplifier                                           |
| Rated Power Output     | 2 × 120 W                                                                     |
| Speaker Output         | 4–16 Ω & 100 V                                                                |
| Frequency Response     | Filter off: 20 Hz – 20 kHz (+1/-2 dB)<br>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      | 300 W                                                                         |
| Power Supply           | AC 115 V / 230 V switchable, 50–60 Hz<br>24 V DC input optional on request    |
| Dimensions (W × D × H) | 482 × 420 × 44 mm                                                             |
| Net Weight             | 7.0 kg                                                                        |

## Rear Panel



## Applications



### Voice Evacuation

Schools, Airports, Train Stations



### Education & Training

Classrooms, Lecture Halls



### AV Control Systems

Hotels, Convention Centres