



Professional Power Amplifier

AC-4700



Description

This series of products is the latest generation of high-power professional digital amplifiers, which is characterized by high efficiency, stability and excellent sound quality. It has broken through the traditional technology in power technology, modulation technology and control technology, so as to substantially improve the overall performance. The application of variable oscillator modulation technology, multiple feedback control technology and innovative output power control technology endow this series of amplifiers with over 95% ultra-high efficiency and excellent stability. And it is specially applicable to large-scale sound reinforcement venues, tour performance multipurpose halls, etc.

Feature

- *The standard 1U cabinet design utilizes a PFC + switching power supply + Class D digital amplifier solution.
- *The soft-start function gradually increases power demand during startup, reducing current surges on the power grid and other electronic devices.
- *The digital amplifier's dual-loop voltage-limiting protection circuit prevents high current surges to the speakers during startup, minimizing the risk of speaker damage and providing comprehensive system protection.
- *The switching power supply features dynamic power-saving automatic output voltage start-up and adaptive dynamic power conversion for high efficiency.
- *Overvoltage protection, undervoltage protection, overcurrent protection, output short-circuit protection, RF Protection, DC Fault Shutdown temperature limiting, signal limiting, and temperature-controlled fan control are supported, greatly enhancing amplifier stability and reliability.
- *XLR balanced input; SPEAKON audio output.
- *Switchable MONO, STEREO, and BRIDGE modes.
- *Switchable sensitivity of 1V/2V.
- *The temperature-controlled fan starts at power-up and accelerates as the temperature rises, reaching full speed around 60°C.
- *The panel has signal indicator (green), clipping indicator (orange), protection indicator (red), and power indicator (blue).

Specification

Model	AC-4700
Output power (1KHz/THD≤1%)	Stereo 8Ω: 4*700W; 4Ω: 4*1200W; 2Ω: 4*2250W; Bridge 16Ω: 2*1400W; 8Ω: 2*2400W; 4Ω: 2*4500W
Connector	XLR interface
Voltage gain (@1KHz)	37.5dB
Input sensitivity	2.2dBu (1V), 8.2dBu (2V)
Input impedance	10KΩ unbalanced, 20KΩ balanced
Frequency response (@1W power)	20-20KHz/±1dB
THD+N (@1/8 power)	≤0.01%
SNR (A-weighted)	106dB
Damping coefficient (@1KHz)	≥200@8ohms
Resolution (@1KHz)	≥85dB
Protection method	Over-voltage protection, under-voltage protection, over-current protection, DC protection, short circuit protection
Indicator light	Power, Protection, Signal, Distortion
Cooling method	Fan cooling
Power supply	~220 50Hz
Overall power consumption	1100W
Dimension (L×W×H)	483×353×44mm
Weight	8kg
Notes: Output power: according to CEA-2006-B/CEA-490-A standard using 20ms pulse 1kHz sine wave measured under 1% total harmonic distortion. Overall power consumption: according to GB4943.1-2022 test method: measured under 1kHz sine wave rated load 1/8 power conditions.	