

PAM-8000/EN

500W Class-D Power Amplifier

General

PAM-8000/EN, 500W Digital Power Amplifier, is used to amplify the audio signal to drive loudspeakers. It is reliable, efficient and light in weight.

Features

- 500W high efficiency Class-D amplifier.
- Maximum 500W power output.
- High flexibility: with 100V/70V output & 100V audio input.
- Enhanced reliability: automatic fault detection, self-protection & forced air cooling fan.
- Automatic output voltage limit.
- Supports both balanced and unbalanced audio input.
- Complies with EN54-16, CE, CB standards.

Functions

INPUT/OUTPUT

PAM-8000/EN supports balanced/unbalanced audio inputs and 100V speaker outputs. It also has a 100V audio input port to connect with the output from other amplifier so that the output power can be increased easily. A contact output is provided to send out the fault status to 3rd system when a fault is detected. Through the RJ45 port, PAM-8000/EN receives the audio signal and control signal from the controller PCU-8000/EN or PEX-8/EN and sends back the fault status.

AUTOMATIC FAULT DETECTION AND SELF-PROTECTION

PAM-8000/EN can self-protect from overheat, overcurrent, overvoltage, undervoltage, overload or short circuit. For example, when the internal temperature reaches its critical limit, the overheat protection circuit will shut down the power amplification module and activate the protection indicator light on the front panel.

PAM-8000/EN can detect power supply errors automatically during operation. The built-in fuse will provide overcurrent protection to the main power supply. When main power supply is failure, the backup power (24V DC) will be switched on.

Technical Specifications

Main power supply: AC 100V-240V 50/60Hz

Backup power supply: 21.5V DC ~ 28.5V DC

Power consumption: <700W

Fuse: T10AH 250V



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DA output: 70V / 100V

Max. output power: 500W

Frequency response: 80Hz~18KHz (+1dB ~ -3dB)

Input impedance: 20KΩ

PA input (RJ-45): 1.4V

Line in: 1.4V

Booster input: 100V

Link output: 1.4V

SNR: 100dB±5%, A-weighted

THD: <0.1% (at 1/3 rated power, 1kHz)

Indicator lights: Power supply, main power fault, backup power fault, protection and VU meter.

Cooling method: Forced air cooling

Relative humidity: < 95%, without condensing

Operating temperature: -10°C~+55°C(14°F to +131°F)

Storage temperature: < 95%, without condensing

Dimension (WxHxD): 482 mm×88 mm ×407 mm

Packing dimension (WxHxD): 580 mm×235 mm ×552mm

Net weight: 11.2Kg

Gross weight: 13.8Kg

Ordering Information

PAM-8000/EN:500W Class-D Power Amplifier