



MULTICHANNEL POWER AMPLIFIER

DA-500FH
(CE301/CE-GB/CE-AU)

DESCRIPTION

The DA-500FH is a 4-Channel Digital Power Amplifier designed for 100 V line high-impedance distribution and features lightweight, compact, high power output, and high efficiency. It delivers 500 W × 4 channels (20 Ω output) using a switching power supply. Each channel is equipped with an independent power section. It can be electrically isolated from the high-impedance speaker system by attaching the MT-251H Output Transformer (optional). Its Control/Monitor terminals permit power ON/OFF control of the individual channels and status monitoring for the power ON/OFF on each channel, protection on each channel, and fan operation. Prepare the control panel or status monitor display panel separately.
It can be mounted in an EIA Standard equipment rack (2 unit size).

SPECIFICATIONS

*0 dB = 0.775 V

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|---------------------------|---|
| Power Source | 220 - 240 V AC, 50/60 Hz |
| Amplification System | Class D |
| Power Consumption | 460 W (based on EN standards) 2350 W (rated output 100 V line, 20 Ω × 4) |
| Input | 4 circuits, +4 dB* (1.23 V) (input level control in maximum position), 10 kΩ, electronically-balanced, removable terminal block (3 pins), XLR-3-31 type connector CH 1 mode ON/OFF switch (ON: CH 1 to All ch, OFF: Each ch) |
| Rated Output | 4 channels: 500 W × 4 (100 V line, 20 Ω) M4 screw terminal, distance between barriers: 8.8 mm (0.35") |
| Frequency Response | 50 Hz - 20 kHz (-3 dB, +1 dB) |
| Total Harmonic Distortion | 0.1 % (1 kHz) 0.3 % (100 Hz - 20 kHz) |
| Protection Circuit | Protection against excessive current flow due to overload, short circuit, unusual DC voltage output, temperature rise at power amp. heat sink (100 °C (212 °F) or more), temperature rise at power supply heat sink (80 °C (176 °F) or more) |
| S/N Ratio | 100 dB (A-weighted) |
| Crosstalk | 70 dB (A-weighted) |
| Control/Monitor | Control input: Power ON/OFF status of the individual channels photocoupler input, drive voltage: 9 V DC (Min) - 14 V (Max), 12 V (Typ) Monitor output: Power ON/OFF status of the individual channels, Protection status of the individual channels, Fan operation status photocoupler open collector output, withstand voltage: 30 V DC, control current: 12 mA or less Connector: RJ-45 connector × 2 Connection cable: Shielded Category 5 twisted pair cable for LAN (CAT5-STP) Maximum cable distance: 600 m (656.17 yd) |
| LED Indicator | Power (blue) × 1, Input (green) × 4, Output (yellow) × 4, Peak (red) × 4, Protect (red) × 4 |
| Cooling | Forced air cooling |
| Operating Temperature | -10 °C to +40 °C (14 °F to 104 °F) |
| Operating Humidity | 90 %RH or less (no condensation) |
| Finish | Panel: Aluminum, black, alumite Case: Plated steel sheet |
| Dimensions | 482 (W) × 88.4 (H) × 404.2 (D) mm (18.98" × 3.48" × 15.91") |
| Weight | 9 kg (19.84 lb) |
| Accessory | Power cord (2 m (6.56 ft)) ...1, Removable terminal plug (3 pins) ...4, Rack mounting screw (with washer) ...4, Tamper-proof cap ...4 |
| Option | Matching transformer: MT-251H |

