

500 W Class-D Power Amplifier

RK-AMP500

General

The Honeywell INTEVIO Public Address (PA) system is the ideal solution for single buildings. Its integrated design provides better stability and cost savings, along with an enhanced user experience for improved performance.

Description

The RK-AMP500 high-efficiency amplifier provides audio signal amplification for the INTEVIO PA system. It is reliable, efficient, and lightweight.

Functions

Input/output

The RK-AMP500 supports balanced/unbalanced audio inputs and 70 V speaker outputs. A contact output is provided to transmit the fault status to a third-party system when a fault is detected. The RK-AMP500 receives the audio and control signals via the RJ45 port on the RK-MCU controller or RK-ZONE8/RK-ZONE24 zone expanders, and sends back the fault status.

Automatic fault detection and self-protection

The system can self-protect from overheat, overcurrent, overvoltage, undervoltage, overload, and short circuit. It can detect power supply errors during operation and a built-in fuse provides overcurrent protection to the main power supply. When a short circuit is detected on the main power circuit, the power is automatically shut down and backup power is enabled to replace the main power supply.



RK-AMP500

FEATURES AND BENEFITS

- 500 W high-efficiency Class-D amplifier. Maximum 500 W rated output power.
- Supports 70V audio outputs.
- 70V output support for increased flexibility.
- Supports balanced or unbalanced audio inputs.
- Automatic fault detection, self-protection, and forced air cooling fan for enhanced reliability.
- Forced air cooling.
- Class-D technology with high efficiency and low power consumption.
- Automatically limits the output voltage.
- Maximum 500 W rated output power.
- Supports automatic protection and fault detection.

RK-AMP500 Technical Specifications

PARAMETERS	VALUES
MAIN POWER SUPPLY VOLTAGE	AC100V-240V 50/60 Hz
BACKUP POWER SUPPLY VOLTAGE	21.5 VDC-28.5 VDC
POWER CONSUMPTION	700 W
FUSE	T10AH 250V
AMPLIFIER OUTPUT	70V
MAX. OUTPUT POWER	500 W
FREQUENCY RESPONSE	80 Hz~18 kHz (+1 dB~-3 dB)
INPUT IMPEDANCE	20 KO
INPUT SENSITIVITY (RJ-45)	1.4V
LINE IN	1.4V
BOOSTER INPUT	100V
LINK OUTPUT	1.4V

PARAMETERS	VALUES
SNR	100 dB ± 5% A-weighted
THD	<0.1% (at 1/3 rated power, 1 kHz)
INDICATOR LIGHTS	Lights of power, main power fault, backup power fault, protection, and signal level indicator
COOLING METHOD	Air cooling
RELATIVE HUMIDITY	< 95% without condensing
OPERATING TEMPERATURE	-10°C~+55°C (14°F to +131°F)
STORAGE TEMPERATURE	-400C~ +70°C (-400F to +158°F)
PRODUCT DIMENSION (W*H*D)	482 mm x 88 mm x 407 mm (18.98 in. x 3.46 in. x 16.02 in.)
PACKAGE DIMENSION (W*H*D)	580 mm x 235 mm x 552 mm (22.83 in. x 9.25 in. x 21.73 in.)
NET WEIGHT	16.09 lbs.
GROSS WEIGHT	21.83 lbs.

Note: Honeywell reserves the right, without notification, to make changes in product design and/or specifications.

WARRANTY

2 Years

CERTIFICATIONS AND APPROVALS

CATEGORY	REGION	CERTIFICATION
SAFETY	Europe	CE Certified
SAFETY	Global	CB Certified
SAFETY	North America	UL60065 Certified
EMC	North America	FCC Part 15 Subpart B Certified

ORDERING

DESCRIPTION	MODEL#
AMPLIFIER	RK-AMP500

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