

INTEVIO 500W Class-D Power Amplifier

RK-AMP500

Honeywell INTEVIO Public Address and Voice Alarm range

Honeywell's INTEVIO Public Address and Voice Alarm system is the ideal solution for operators of small and mid-sized buildings. It offers a cost effective, integrated system providing a stable, flexible and easy to use PA/VA solution.

FUNCTIONS

Input/output

RK-AMP500 supports balanced/unbalanced audio inputs and 100V speaker outputs. It also has a 100V audio input port to connect with the output from other amplifiers so that the output power can be increased easily. A contact output is provided to send out the fault status to a third-party system should a fault be detected. Through the RJ45 port, RK-AMP500 receives the audio signal and control signal from the controller RK-MCU or RK-ZONE8 and sends back the fault status.

DESCRIPTION

RK-AMP500, 500W Digital Power Amplifier, is used to amplify the audio signal to drive loudspeakers. It is reliable, efficient and light-weight.

Automatic fault detection and self-protection

RK-AMP500 can self-protect from overheating, 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. RK-AMP500 can detect power supply errors automatically during operation. The built-in fuse will provide overcurrent protection to the main power supply. In the event of a main power supply failure, the backup power (24V DC) is activated.



RK-AMP500

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

RK-AMP500 Technical Specifications

PARAMETERS	VALUES
Main power supply	AC 100V-240V 50/60Hz
Backup power supply	21.5V DC ~ 28.5V DC
Power consumption	<700W
Fuse	T10AH 250V
DA output	70V / 100V
Max. output power into load of 20Ω	500W (for interval speech announcements, background music)
Rated RMS output power into load of 25Ω	400W (for continuous speech announcements, background music and all test conditions EN54/SPL/STI)
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

PARAMETERS	VALUES
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	-40°C ~ +70°C (-40°F to +158°F)
Dimension (W*H*D)	482 mm×88 mm ×407 mm
Packing dimension (W*H*D)	580 mm×235 mm ×552mm
Net weight	11.2Kg
Gross weight	13.8Kg

CERTIFICATIONS AND APPROVALS

CATEGORY	REGION	CERTIFICATION
Voice Alarm	Europe	EN54-16 Certified
Safety	Europe	CE/CB Certified

ORDERING INFORMATION

DESCRIPTION	MODEL#
500W Class-D Power Amplifier	RK-AMP500

Germany

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HSF-RK_AMP500-01-UK(1118)DS-E
 November 2018
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