

# 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 |

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