

VHD5000 Technical Data Sheet

Introduction

Active control and amplification unit specifically designed in conjunction with VHD5000S for powering the VHD5 loudspeaker system. The VHD5000 is equipped with many features for easy large scale speaker system use. It features all signal processing, crossover and speaker system protection. All signal processing is executed with KV2 Audio Super Audio Analog circuitry and utilize KV2's industry leading 20MHz sampling for on board time alignment and phase correction for maximum audio quality. The VHD5000 is equipped with multiple delay lines, wideband delay line for VHD5 system delay, fill output delay and two low frequency delay lines for subwoofers.

Features

The amplifier compliment inside the VHD5000 Amplifier is as follows:

- High Frequency 1 - 300-watt, Class AB Push-Pull low IM Mosfet design with transformer balanced output
- High Frequency 2 - 600-watt, High Efficiency, High power bandwidth, low intermodulation design
- Mid Frequency - 1500-watt, High Efficiency, High Power Bandwidth, low intermodulation design

| Output Channels | |
|--|--|
| Number of Channels | 1 x VHD5.0 |
| High Frequency Amplifier 1 Specification | |
| Type | Class AB Push-Pull low IM Mosfet design, transformer balanced output |
| Rated Continuous Power | 300W |
| Distortion | <0.02% |
| Operating Bandwidth | 2kHz to 30kHz |
| High Frequency Amplifier 2 Specification | |
| Type | High Efficiency, High power bandwidth |
| Rated Continuous Power | 600W |
| Distortion | <0.05% |
| Operating Bandwidth | 2kHz to 30kHz |
| Mid Frequency Amplifier Specification | |
| Type | High Efficiency, High power bandwidth |
| Rated Continuous Power | 1500W |
| Distortion | <0.05% |
| Operating Bandwidth | 450Hz to 2kHz |
| Signal Input | |
| Input Channels | XLR |
| Input Sensitivity | 1.5V RMS |
| Input Impedance | 10kΩ to 120Ω „Line driver ready“ |
| Signal Output | |
| Output channels | Through, Low, Sub A B, Fill, Insert |

Product code: KVV 987 334 (230V)



Application

Specifically designed as the amplification and control for the 1xMid/Hi VHD5.0 part loudspeaker systems with adjacent VHD5000S in a rack mount module

- Large scale Portable PA
- Fixed installations
- Large clubs

| Speaker Output | |
|-------------------------|--------------------------------------|
| Speaker Output | AP6 |
| Features | |
| Input Level Control | -20/ +3dB |
| Hi Level Control | -6/ +4dB |
| Mid Level Control | fixed |
| Low Level Control | -6/ +6dB |
| Subwoofer Level Control | -20/ +10dB |
| Downfill Level Control | -54/ +6dB |
| Indicators | 5.7" sunlight readable color display |
| Remote control | K-NET, Ethernet |
| Power | |
| Power Connector | 1x Neutrik PowerCon® 32A |
| Operating Voltage | 230V |
| Operating Voltage Range | 195 to 260V AC |
| Recommended Amperage | 20A 205V 16A 230V |
| Soft Start | YES |
| Protection | Thermal breaker |
| Cooling | Front-to-back, active |
| Physical Dimensions | |
| Height | 177.8 mm (7.0"), 4RU |
| Width | 481.4 mm (18.95") |
| Depth | 495 mm (19.5") |
| Weight | 36 kg (80lbs) |

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Dimensional Drawings

