

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
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	1.55V 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	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

