

# VHD5100 Technical Data Sheet

## Introduction

The VHD5100 is a two channel, three-way, active control and amplification system specially designed for the KV2 Audio VHD5.1 Downfill and ESR215MkII loudspeaker system. It houses all signal processing and amplification, as well as providing control and crossover function if needed utilizing a Fill channel external subwoofer. Each channel incorporates three amplifiers consisting of 100-watt, Class AB, push pull, low intermodulation amplifier for high frequencies, 200-watt, Class AB, push pull, low intermodulation design for mids and a 1000-watt, high-efficiency, current-enhancing switch mode technology amplifiers for bass.

## Features

The amplifier compliment inside the VHD5100 Amplifier is as follows:

- High Frequency
  - 2x 100-watt, Class AB, push pull, low intermodulation design
- Mid Frequency
  - 2x 200-watt, Class AB, push pull, low intermodulation design
- Low Frequency
  - 2x 1000-watt, high-efficiency, current-enhancing switch mode

Output Channels	
Number of Channels	2 (Fill + DownFill)
Total Output Power	2x 1300W
High Frequency Amplifier Specification	
Type	Class AB - Push Pull - Low IM Design, Transformer balanced output
Rated Continuous Power	100W
Distortion	<0.02%
Operating Bandwidth	2.5kHz to 40kHz
Mid Frequency Amplifier Specification	
Type	Class AB - Push Pull - Low IM Design, Transformer balanced output
Rated Continuous Power	200W
Distortion	<0.02%
Operating Bandwidth	400Hz to 2,5kHz
Low Frequency Amplifier Specification	
Type	High efficiency, Current-Enhancing, Switched-Rail Amplifier
Rated Continuous Power	1000W
Distortion	<0.02%
Operating Bandwidth	10Hz to 400Hz

Product code: KVV 987 438 (230V)



## Application

Specifically designed as the amplification and control unit for powering the 1x VHD5.1 Downfill and 1x ESR215MkII as a general use Fill module

- Large scale Portable PA
- Fixed installations
- Large clubs

Signal Input	
Input Sensitivity Fill	1.55V RMS (+8dB/-10dB)
Input Impedance	20kΩ (balanced)
Input Sensitive DownFill	1.55V RMS
Speaker Output	
Speaker Output	2x AP6 female
Power	
Power Connector	2x Neutrik PowerCon®
Operating Voltage	115V / 230V / 250V
Operating Voltage Range	100 to 120V@60Hz   205 to 240V@50Hz   225 to 260V@50Hz
Recommended Amperage	2x10A 115V   2x5A 230V   2x5A 250V
Physical Dimensions	
Height	177.8 mm (7.0"), 4RU
Width	481.4 mm (18.95")
Depth	455.3 mm (17.93")
Weight	39 kg (86lbs)

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## Dimensional Drawings

