

EPAK2500R Technical Data Sheet

Introduction

Rack mount version of our popular EPAK2500 four-way, active control and amplification unit specifically designed for the ES Series modular loudspeaker system. Two shock mounted fans move air across the heatsinks which seal and protect the electronic components. This minimizes maintenance cycles and improves the components lifespan and reliability. Both the EPAK2500 and EPAK2500R utilize KV2's industry leading 20MHz sampling for on board time alignment and phase correction of all components in the ES system.



Features

- 4-way modular, rack mount 2500W Control and Amplification System for use specifically with ES Series modules
- High Frequency, 100W, Class AB, push-pull, low intermodulation amplifier with transformer balanced outputs
- Mid Frequency, 200W, Class AB, push-pull, low intermodulation amplifier with transformer balanced outputs
- Mid Bass, 600W, high efficiency, current enhancing switching amplifier
- Subwoofer, 1600W, high efficiency, current enhancing switching amplifier
- Complete, on board speaker management system including equalization, time alignment, crossover filters, amplifier overdrive protection, system set-up and output level controls
- 20MHz sampling, digital delay alignment system setting new standards for audio performance and dramatically increasing phase response precision
- AC soft start circuitry with ON/OFF AC breaker switch provides thorough power protection Setup provides selection and control of different subwoofer combinations
- External Subwoofer output with independent internal and external Level control +/- 6dB
- High Frequency control +/- 3dB for precise adjustment
- Comprehensive front-to-back cooling system features chassis sealed PCB's for improved reliability
- Line Driver ready – rear mounted Input impedance selector provides selection of optimal input impedance when used with a KV2's LD4 Line Driver
- Individual signal inserts for Mid/High, Internal Subwoofer, and External Subwoofer signal paths providing flexibility for insertion of signal processing or feeding from auxiliary sources as required
- Includes cable kit with all speaker cables for a single stack ES system

Application

Specifically designed as the amplification and control elements for the ES loudspeaker systems in a full rack mount module

- Portable PA
- Fixed installations
- Bars and Nightclubs
- Houses of Worship

High Frequency Amplifier Specification

Type	Class AB Push-Pull low inter-modulation Mosfet design with transformer balanced output
Rated Continuous Power	100W
Distortion	<0.05%
Operating Bandwidth	2.5kHz to 28kHz

Mid Frequency Amplifier Specification

Type	Class AB Push-Pull low inter-modulation Mosfet design with transformer balanced output
Rated Continuous Power	200W
Distortion	<0.05%
Operating Bandwidth	500Hz to 2.5kHz

Mid-Bass Frequency Amplifier Specification

Type	High efficiency, Low frequency, Current-enhancing switch mode
Rated Continuous Power	600W
Distortion	<0.05%
Operating Bandwidth	130Hz to 500Hz

Low Frequency Amplifier Specification

Type	High efficiency, Low frequency, Current-enhancing switch mode
Rated Continuous Power	1600W
Distortion	<0.05%
Operating Bandwidth	20Hz to 130Hz

Signal Input

Input Sensitivity	1.0V RMS
Input Impedance	20k Ω (balanced) or 50 Ω "Line Driver ready"

Speaker Output

Speaker Output	AP6 (Mid-Hi), AP4 (Sub)
----------------	-------------------------

Power

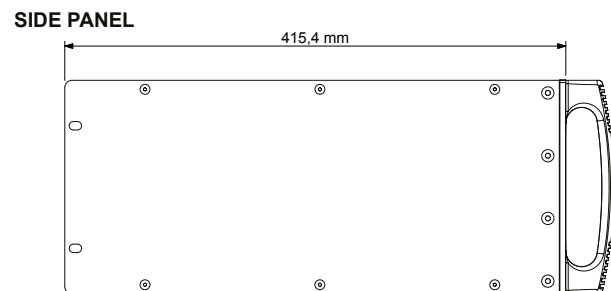
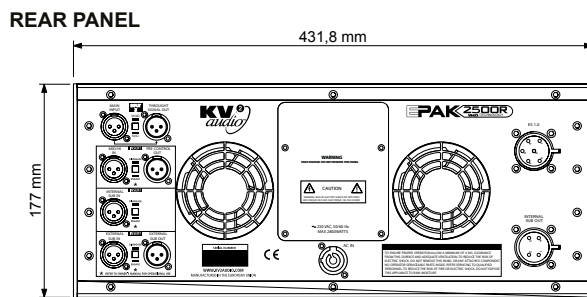
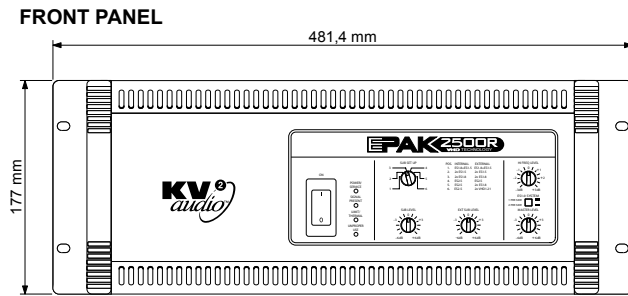
Power Connector	Neutrik PowerCon [®]
Operating Voltage Range	100 to 120V@60Hz 205 to 240V@50Hz 225 to 260V@50Hz
Recommended Amperage	20A 115V 10A 230V 10A 250V

Physical Dimensions

Height	177 mm (6.96")
Width	481.4 mm (18.95")
Depth	415.4 mm (16.35")
Weight	30 kg (66lbs)

EPAK2500R Technical Data Sheet

Dimensional Drawings



The future of sound. Made perfectly clear.



KV2 Audio International, Nádražní 936, Milevsko 399 01, Czech Republic

Tel.: +420 383 809 320

Email: info@kv2audio.com | Web: www.kv2audio.com