

EPAK2500 Technical Data Sheet

Introduction

The EPAK2500 is a four-way, active control and amplification unit specifically designed for the ES Series modular loudspeaker system. It not only houses all signal processing and four individual amplifiers but also controls the allocation of power depending on the number of bass modules employed. The EPAK2500 is enclosed in a road-rugged case with side handles and a built in cable storage compartment. Easily transported on a trolley this unique amplification system has its electronics mounted on an independent suspension system that isolates it from the shocks and impacts typically encountered on the road. A large aluminum heat sink provides passive cooling along with two demand-sensitive fans for added reliability.

Features

- 4-way modular, 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 for on board time alignment and phase correction
- AC soft start circuitry with ON/OFF AC breaker switch provides thorough power protection
- Passive heat dissipation design with demand-sensitive forced cooling back-up system
- Set-up provides selection and control of different subwoofer combinations
- Professional enclosure using road-rugged case with side handles
- Removable front cover provides storage of all AC and speaker cables
- Bass Character- Attack or extension switch alters the low frequency character
- Includes all speaker cables for a single stack ES system - CABLE-KIT



Application

Specifically designed as the amplification and control elements for ES loudspeaker systems

- 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)

Speaker Output

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

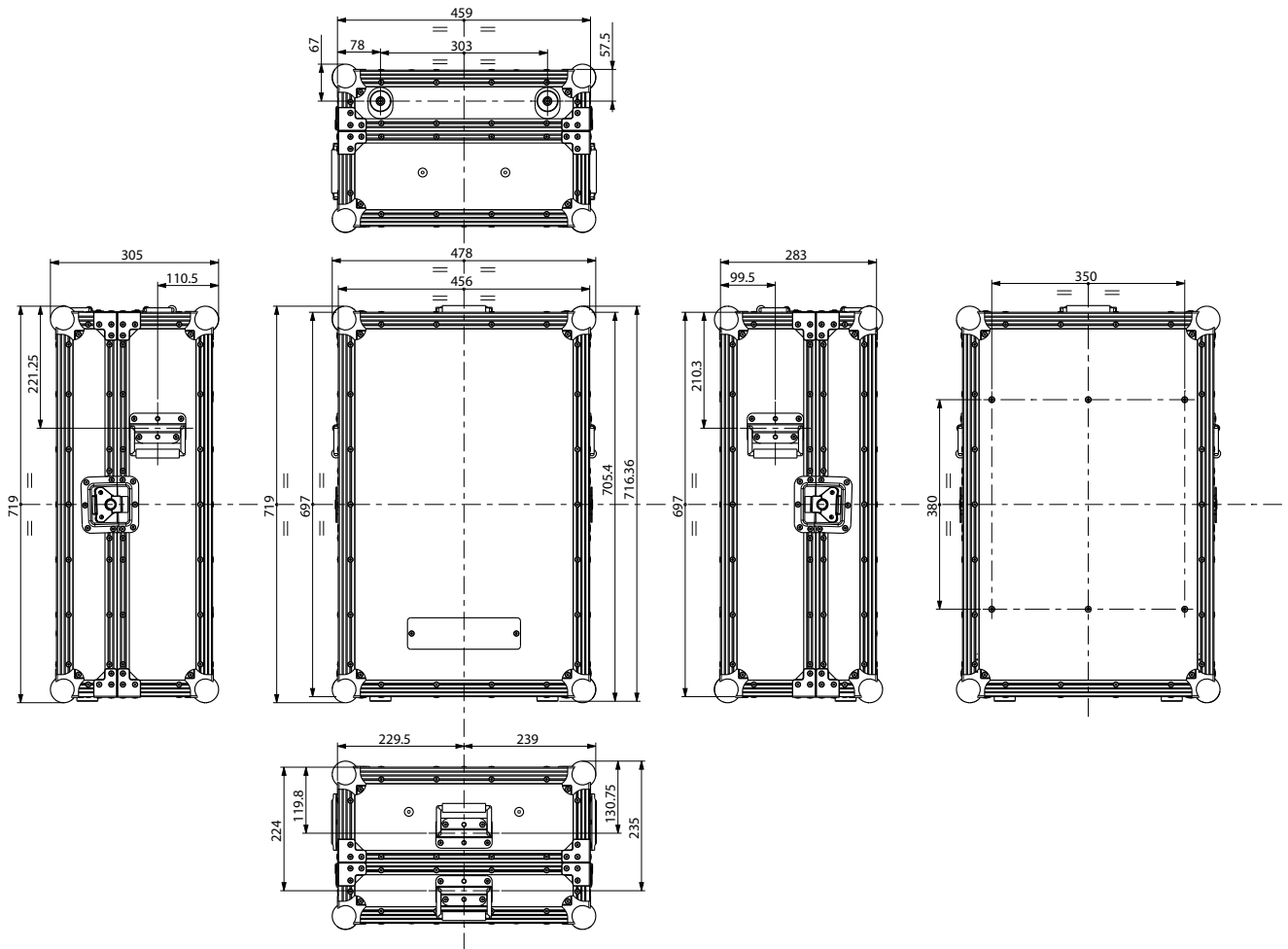
Power Connector	Neutrik PowerCon [®]
Operating Voltage Range	100 to 120V@60Hz 205 to 240V@50Hz 225 to 260V@50Hz
Recommended Amperage	20A 115V 10A 230V 10A 250V

Physical Dimensions

Height	719 mm (28.30")
Width	478 mm (18.82")
Depth	305 mm (12")
Weight	32 kg (70.4lbs)

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Dimensional Drawings



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