SL3000 Technical Data Sheet

Introduction

Product code: KVV 987 280 (250V)
KVV 987 279 (230V)
KVV 987 278 (115V)

The SL3000 Amplifier is a three-way, active control and amplification system specifically designed for the KV2 Audio SL Series modular loudspeaker systems. The SL3000 Stereo Amplifier drives and controls one SL412 per channel and follows the typical KV2 holistic approach of matching components with high quality electronics for true direct performance. The SL3000 utilises a 1000-watt high efficiency – current enhancing, switch – mode technology, with linear active filter design for the low mid-section, a 200-watt class AB push pull low intermodulation design amplifier for the mid-range and a similar 100-watt design for the high frequencies. It houses all time alignment, phase correction, amplification and equalisation as well as providing an external subwoofer crossover output to run further subwoofer cabinets if needed.

Application

Specifically designed as the amplification and control elements for the SL loudspeaker systems in a 4RU mount module

- Fixed Installations

Features

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

Output Channels	
Number of Channels	2 (stereo)
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	35Hz to 400Hz

Signal Input	
Input Sensitivity	2.2V RMS
Input Impedance	20kΩ (balanced)

Speaker Output	
Speaker Output	2x AP6

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	495 mm (19.5")
Weight	39.2 kg (86.62lbs)

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Architectural Specifications

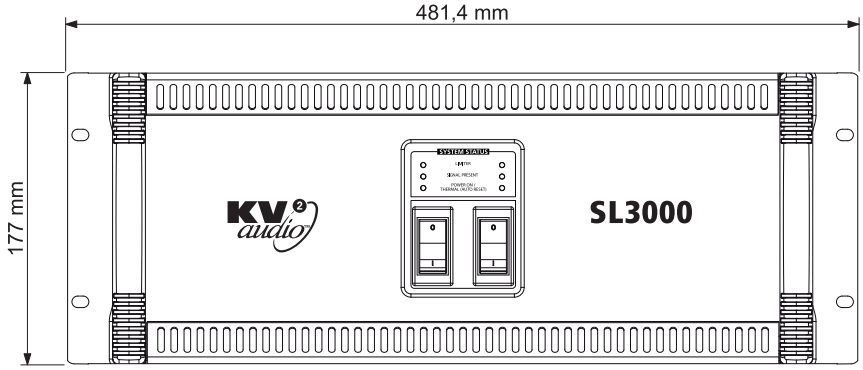
The Stereo Power Amplifier-Controller shall provide three individual application specific electronic channels of amplification for one SL412, with internal loudspeaker protection, filter networks and equalization using SLA Technology (Super Live Audio). The output Topology shall be Multi-disciplined for each individual output channel, consisting of Class AB Push-Pull low Intermodulation Mosfet design, High Efficiency High Power bandwidth and Current-Enhancing switch mode.

The input sensitivity shall be 1.0V RMS, the input Impedance shall be 20Kohm. Power Outputs of the three channels shall be 100W RMS High Frequency section, 200W RMS Mid high frequency section, 1000W RMS Low bass frequency section. The Power Amplifier- Controller shall have an operating bandwidth of 35Hz to 40kHz and an operating distortion factor of less than <0.02% across all output channels. The Power Amplifier-Controller shall have rear panel electronically balanced XLR input connectors, with XLR thru connectors as well as XLR Subwoofer outputs fed from a fixed 70Hz crossover frequency. Output connectors shall be 6 pin Amphenol AP6. The amplifier will have a +/- 6dB Subwoofer Gain control and a pushbutton switch to activate Full range or Crossover mode. The Power Amplifier-Controller shall have front panel indicators for Power, Limit/Thermal and Signal present. Two Thermal Breaker switches shall be used for switch on/off of each channel. The Power Amplifier-Controller shall have two Neutrik PowerCon connectors for mains supply, with an operating voltage range of 100 to 120V @ 60Hz, 205 to 240V @ 50Hz. and 225 to 260V @ 50Hz. A soft start circuit will limit inrush power. The Power Amplifier-Controller shall have recommended Amperage of 20A @115V, 10A @230V, 10A @250. 2 x Temperature controlled variable speed fans will assist internal convection cooling systems. The Amplifier chassis and enclosure shall have dimensions of 177 mm / 7.0" x 481.4 mm / 18.9" x 495. mm / 17.9". The total weight will not exceed 39kg /86lbs.

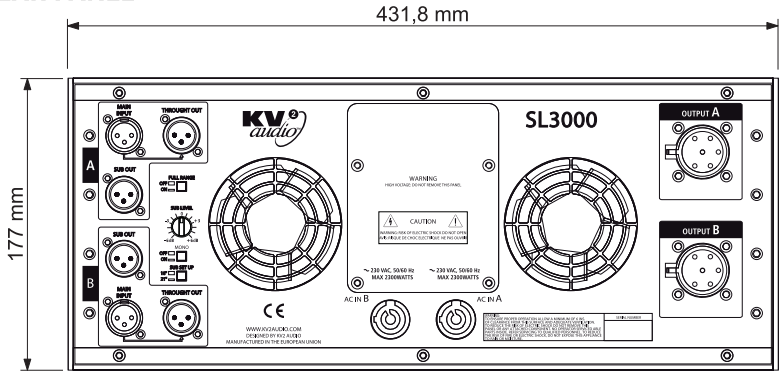
The Power Amplifier-Controller shall be the KV2 Audio SL3000. The Power Amplifier-Controller shall be specifically for the SL412.

Dimensional Drawings

FRONT PANEL



REAR PANEL



KV2 Audio International, Nádražní 936, Milevsko 399 01, Czech Republic
Tel.: +420 383 809 320
Email: info@kv2audio.com | Web: www.kv2audio.com