Power Amplifiers
Two-channel

V-series

V4-900 V4-1200 V4-1800 V4-2400 V2-2400

Bipolar Output Transistors
•
H Class Topology
(AB Class for V4-900)
•
Classic Power Supply
(toroidal transformer)
•
Forced Cooling
•
Dust Filter
•
2U Height
•
Input Level Controls
•
Signal Indicators
•
Clip and Alarm Indicators
•
Mode Switch
Mono - Stereo - Bridge
•
Switchable High Pass Filter
(45Hz, 24dB/octave)
•
Built-in Crossover
•
Switchable Line Outputs
•
Optional Input Section with Input
Sensitivity Switch
•
Ground Lift
•
Detachable Power Cord
•
XLR Input Connectors
•
SpeakON Output Connectors
•
2-stage Overload Protection
•
Short Circuit Protection
•
2-stage Thermal Protection
•
Optoelectronic Clip Limiter
•
Triak DC Speaker Protect
•
High Frequency Speaker Protection
•
Soft Signal Start

V-Series amplifiers are classic commercial amplifiers with medium and high power.

V-Series amplifiers are based on H class topology (AB class for **V4-900**). This topology provides higher efficiency and less heat generation compared with traditional class AB circuitry and is a good compromise between high reliability, reduced heat generation, good sound quality, and moderate cost.

The amplifiers use forced cooling system separate for each channels. The cooling intensity changes smoothly depending on the output stage temperature and ensures the efficient operation of the amplifier at high ambient temperatures.

Amplifiers have the classic reliable power supply, based on a toroidal transformer.

V-Series amplifiers are equipped with crossover, that allows to create a subwoofer-satellite configuration without using external signal processing devices. Factory crossover point is 125 Hz and can be changed by replacing plug-in circuit boards, located on the input block. The frequency band of each channel is individually selectable via switches, located on the rear panel.

Line outputs are connected parallel to the line inputs in the THRU position of the Line Output switches. Also processed signal after crossover can be send to the line output (SUB and TOP switch positions).

When the amplifier is working with external signal processing devices, input section with input sensitivity switches can be set instead of the input section with crossover.

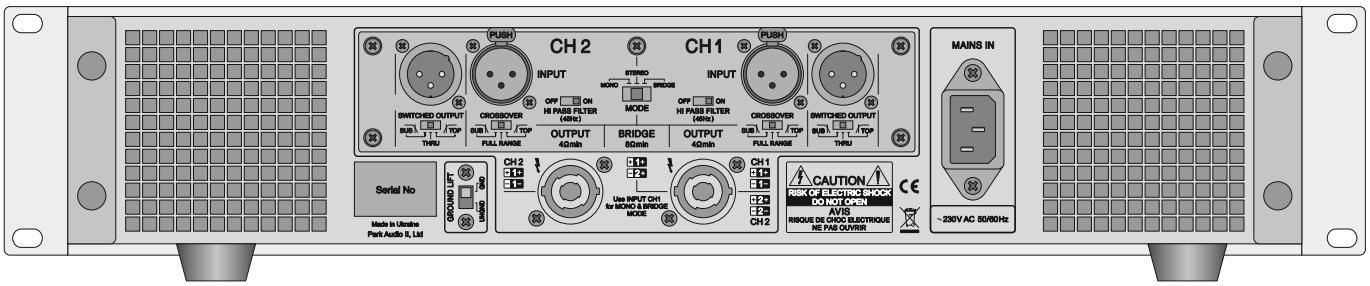
Switchable high-pass filter (45 Hz, 24 dB/octave) improves the reliability of the speaker by removing from the signal low frequency components (lower frequency limit of the loudspeaker), which are not reproduced by speakers and only cause useless «bumpy» cones.

Amplifiers are designed to work with 4 Ohms load impedance. The most powerful model of the **V**-Series also has a version (**V2-2400**), designed for stable operation with 2 Ohms load impedance .

To protect the amplifier from ingress of dust and foreign objects amplifiers have a dust filter made of polyurethane foam. The filter is located under the easily removable front panel. Due to its structure, the filter material allows repeated washing and flushing. For cleaning the filter it is enough to remove the 4 fixing screws.

The amplifier is equipped with a full set of modern protection systems. These include short circuit protection, thermal protection, DC and high frequency speaker protections.

Model	V4-900 MkIII	V4-1200 MkIII	V4-1800 MkIII	V4-2400 MkIII	V2-2400 MkIII
Output Power (2 Ohms)	—	—	—	—	**2 x 1200 W**
(4 Ohms)	**2 x 450 W**	**2 x 600 W**	**2 x 900 W**	**2 x 1200 W**	**2 x 700 W**
(8 Ohms)	**2 x 280 W**	**2 x 330 W**	**2 x 500 W**	**2 x 700 W**	**2 x 380 W**
(Bridge, 4 Ohms)	—	—	—	—	**2000 Вт**
(Bridge, 8 Ohms)	**900 W**	**1200 W**	**1450 W**	**2000 W**	**1400 W**
Frequency Response	**20 Hz – 20 kHz** (±0.2 dB, Pnom.) / **10 Hz – 60 kHz** (±1 dB, 1 W)				
Total Harmonic Distortion	**0.003 %** (1 kHz) / **0.02 %** (20 Hz – 20 kHz)				
Slew Rate	**40 V/µs** (channel) / **80 V/µs** (bridge)				
Damping Factor	**400** (1 kHz, 8 Ohms)				
Crosstalk	**60 dB** (1 kHz)				
Signal-to-Noise Ratio	**100 dB** (unweighted)				
Sensitivity	**0.775 V**				
Input Impedance	**10 kOhms** (balanced)				
High-pass Filter Cutoff Frequency	**45 Hz** (24 dB /octave)				
Crossover Frequency	**125 Hz** (12 dB/octave)				
Power Requirements	**~230 V AC, 50/60 Hz**				
Weight	**14kg**	**15.5 kg**	**16 kg**	**18.5 kg**	**18.5 kg**
Height	**2U**				
Depth in Rack	**375 mm**				
Dimensions	**482 mm** (W) x **96 mm** (H) x **414 mm** (D)				



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