

# V40

## Digital Power Amplifier

VAL audio

Die Liebe zur Musik



The VAL Audio V Series amplifiers redefine the landscape of modern digital amplification, setting new benchmarks in performance and efficiency. At the forefront of this innovation, the V40 digital amplifier emerges as a highly versatile solution, expertly engineered to meet the demands of both touring and fixed installations while harnessing the latest advancements in digital amplifier technology.

Housed in a sleek and lightweight 1U chassis weighing just 5.9kg (net), the V40 is powered by cutting-edge Class D circuitry, delivering exceptional power and efficiency. It boasts four independent channels, each capable of delivering up to 600W at 4 ohms (EIA continuous rating), ensuring uncompromising performance for the most demanding applications. The amplifier is driven by a high-current SMPS power supply with active PFC correction, enabling stable operation across a broad voltage range of 100-265VAC.

Engineered for optimal energy efficiency, the V40 achieves an impressive 85% electrical efficiency while maintaining exceptional cooling performance. Advanced thermal management features include multiple intelligent fans with adaptive speed control, ensuring effective heat dissipation under all operating conditions. Furthermore, its low power consumption during idle demonstrates the superior engineering and premium components behind its design.

The V40 is fortified with a comprehensive suite of protection mechanisms, including soft start, high-frequency protection, DC fault detection, short circuit safeguards, overload and clip/limit controls, and overheat protection. These features guarantee safe and reliable operation in even the most challenging environments.

Built to exceed industry standards, the VAL Audio V40 amplifier is a symbol of durability and excellence, offering years of reliable, trouble-free performance. With its state-of-the-art design and robust feature set, the V40 stands as the ultimate choice for professionals seeking unmatched reliability and sonic quality.

## KEY FEATURES

- **Versatile Applications:** Tailored for both touring and fixed installations
- **Advanced Class D Technology:** Delivers unmatched efficiency and performance
- **Flexible Input Sensitivity options:** 1V / 1.4V/2.0V/2.4V
- **Ultra-Compact Design:** Sleek 1U form factor for space-saving convenience
- **Robust Power Supply:** High-current SMPS with active PFC correction ensures stability and reliability
- **Featherlight Construction:** Weighs an impressively low 5.9kg
- **Exceptional Damping Factor:** Achieves a damping factor of >800 for superior control over connected speakers
- **Premium Components:** Engineered with uncompromising quality for maximum durability and performance
- **Professional Connectivity:** Equipped with precision-engineered XLR inputs and Speakon output connectors

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## APPLICATIONS

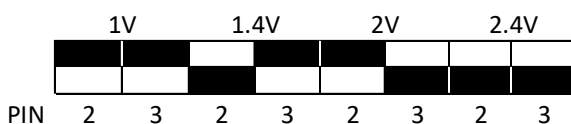
- **Live Performances & Touring:** Provides powerful, reliable sound for concerts, stage performances, and events
- **Houses of Worship:** Delivers clear and consistent audio for sermons, music, and large congregations
- **Theaters & Auditoriums:** Ensures high-fidelity sound for dramatic performances, presentations, and speeches
- **Nightclubs & Entertainment Venues:** Offers robust audio output for vibrant, dynamic soundscapes
- **Corporate Events & Conferencing:** Facilitates high-quality audio for presentations, meetings and conferences
- **Fixed Installations:** Ideal for schools, lecture halls, stadiums, and other permanent setups requiring professional-grade audio amplification

## SPECIFICATIONS

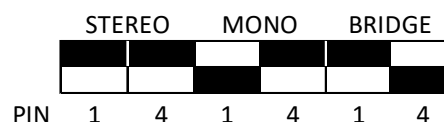
MODEL	V40
Output Power (1KHz, 0.5% THD)	
8Ω Stereo	4 x 350W
4Ω Stereo	4 x 600W
8Ω Bridge	2 x 1200W
Power Supply	High Current Switch Mode PSU with active PFC
Input impedance	20K balanced / 10K unbalanced
Input Sensitivity	1V / 1.4V/2.0V/2.4V
Total Harmonic Distortion	<0.05%
Frequency Response	20Hz- 25kHz
Signal to Noise Ratio	>110dB
Damping Factor (1KHz, 8 ohms)	>800
Crosstalk (1KHz)	>70dB
Operating Voltage Range	100-265VAC 50-60Hz
Heat Dissipation	Intelligent variable fan speed
Net Weight (Kg)	5.9
Size (mm)	480 x 340 x 48

## DIP SWITCH SETTINGS

### A) SENSITIVITY



### B) STEREO / MONO / BRIDGE



\* White is enabled.