

VAL audio

X Series

X Series Professional Power Amplifiers

VAL audio X series is a High End range of professional audio amplifiers. This Premium range of high power amplifiers is designed for the most demanding live audio users, whether for touring or fixed installations. These amplifiers offer unmatched quality and reliability. The range comprises of 5 models ranging in power from 1000W to 3000W at 2 ohms both channels driven. The X2000, X3000 and X4000 are housed in an elegant and compact 2U frame. The X5000 and X6000 are housed in a 3U frame.

Besides higher power, the X Series offers higher input voltage, selectable sensitivity, and easily adjusted rear panel switches with color coded LED indicators. For those users who simply want a high performance amplifier to go with their existing processor or console, the X Series is an ideal choice, offering high power, excellent value, and zero signal latency. All the models feature sturdy side handles enabling convenient carrying on road.

The flagship of this series the X6000 is capable of producing 3000W at 2 ohms in stereo mode. It features a high damping factor of >2500 and coupled with a high current toroidal transformer is ideal for powering high power subwoofers.

The X series is the clear answer where audiophile grade sound quality is required with the highest level of reliability and roadworthiness.

KEY FEATURES

- Unmatched sonic quality and reliability in a compact package
- High damping factor - X2000, X3000, X4000 500, X5000 1000 and X6000 2500.
- High efficiency Class H output topology that lowers AC current consumption and cooling requirements.
- Linear power supply with High-current toroidal transformers for greater 2 ohm power.
- Comprehensive protection circuitry. DC, Short circuit, open circuit, thermal, ultrasonic, RF, Input / Output over load, soft startup, Active limiter protection
- Premium components used - Neutrik XLR & Speakon, WIMA capacitors, RUBYCON power



X Series

Model	8	4	* 2	* 4
	Stereo	Stereo	Stereo	Bridged
X2000	500W	750W	1000W	2000W
X3000	650W	1050W	1500W	3000W
X4000	850W	1350W	2000W	4000W
X5000	1150W	1800W	2500W	5000W
X6000	1400W	2300W	3000W	6000W

* EIA 1KHz, 1% THD / EIA 1KHz, 0.1% THD

capacitors, CARLING hydraulic-magnetic breakers, ALPS switches, ON SEMI metal bipolar transistors.

- High reliability - 184 point check points in 9 Quality control steps on the production line followed by 36 hours burning at clip level.
- Smart Overheat management giving the X series the ability to perform in high temperature environments without thermal shutdown.
- Selectable input gain facility (0.775V, 36dB, 32dB)
- 3 selectable modes (Stereo, parallel and bridge) via DIP switches.
- Neutrik male XLR input with XLR female loop facility.
- 3 x Neutrik speakon for output.
- Study ride handles for carrying.

KEY FEATURES

Model	X2000	X3000	X4000	X5000	X6000
STEREO MODE, Both Channels Driven					
8 ohms FTC 20 Hz - 20 kHz, 0.1% THD EIA 1 kHz, 0.1% THD	450W 500W	600W 650W	750W 850W	1100W 1150W	1300W 1400W
4 ohms FTC 20 Hz - 20 kHz, 0.1% THD EIA 1 kHz, 0.1% THD	650W 750W	950W 1050W	1200W 1350W	1600W 1800W	2000W 2300W
2 ohms FTC 20 Hz - 20 kHz, 0.1% THD EIA 1 kHz, 1% THD	900W 1000W	1250W 1500W	1600W 2000W	2200W 2500W	2700W 3000W
BRIDGE-MONO MODE					
8 ohms FTC 20 Hz - 20 kHz, 0.1% THD EIA 1 kHz, 0.1% THD	1300W 1500W	1900W 2100W	2400W 2700W	3200W 3600W	4000W 4600W
4 ohms EIA 1 kHz, 1% THD	2000W	3000W	4000W	5000W	6000W
Frequency Response	20 Hz - 20 kHz, 8 ohms, LF filter bypassed, +0/-1 dB 5 Hz - 50 kHz, 8 ohms, LF filter bypassed, +0/-3 dB				
Damping Factor	≥500 at 8 ohms		≥1000 at 8 ohms		≥2500 at 8 ohms
Distortion(SMPT-IM)	<0.02%				
Distortion(Typical)	<0.02%				
20Hz-20KHz: 10dB below rated power	<0.02%				
1KHz and below: full rated power	<0.02%				
Output Circuitry	CLASS H Topology				
Input Sensitivity	0.775V, 26dB, 32dB				0.775V, 26dB, 36dB
S/N ratio (rated power)	≥107dB				
Input Impedance	20k ohm balanced, 10k ohm unbalanced				
Controls Front:	AC power switch, Ch. 1 and Ch. 2 gain control				
Controls Rear:	10-pole DIP switch featuring Input sensitivity, switches for selecting Stereo, Parallel, or Bridge mode and grounding on/off.				
Connectors Input:	XLR female each channel, parallel XLR male output				
Connectors Output:	Speakon® output - CH A, CH B and Bridge output				
Cooling	Continuously variable-speed fan, back-to-front air flow				
Amplifier Protection	DC, Short circuit, open circuit, thermal, ultrasonic, RF, Input / Output over load, soft startup, Active limiter protection				
Power Requirements	3.8A, 230C AC (±10%), 50-60Hz	5.6A, 230C AC (±10%), 50-60Hz	7A, 230C AC (±10%), 50-60Hz	9.6 A, 230C AC (±10%), 50-60Hz	11.1 A, 230C AC (±10%), 50-60Hz
Rack space	2U			3U	
Dimensions(WxHxD)	482x88x453mm			482x132x499mm	482x132x506mm
Weight	17kg	20kg	22kg	35kg	41kg

