VAL audio

The X series is our High performance range of Power amplifiers. This traditionally designed range of power amplifiers feature the latest Class H technology and hence have very little heat dissipation. They offer legendary performance and reliability. They are 5 models - the X2000, X3000, X4000, X5002 and X6002. The X2000, X3000 and X4000 come in a compact 2U chassis. The more powerful X5002 and X6002 come in a 3U frame. The design of the X5002 and X6002 make them ideally suited for low frequency and subwoofer applications. They feature rock solid and robust power supplies with high current drive and have extremely high damping factors. The X5002 produces 2 x 2750 watts @ 2 ohms and has a damping factor > 1500. The X6002 produces a whopping 2 x 3300W @ 2 ohms and has a very high damping factor of > 2500. VAL audio X series are designed for the most demanding user from live touring to fixed installation applications.

X Series

High Performance Stereo Professional Power Amplifiers



Model	8U Stereo	4U Stereo	* 2U Stereo	* 4U Bridged
X2000	500W	750W	1000W	2000W
X3000	650W	1050W	1500W	3000W
X4000	850W	1350W	2000W	4000W
X5002	1300W	2000W	2750W	5500W
X6002	1550W	2500W	3300W	6600W

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

Unmatched sonic quality and reliability in a compact package

KEY FEATURES

- High damping factor X2000, X3000, X4000≥500, X5002≥1500 and X6002≥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 / Toshiba power capacitors, CARLING hydraulicmagnetic 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, 26dB, 36dB)
- 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 side handles for carrying.

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High Performance Stereo Professional Power Amplifiers

SPECIFICATIONS

MODEL	X2000	X3000	X4000	X5002	X6002		
	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	1200W 1300W	1400W 1550W		
4 ohms FTC 20 Hz - 20 kHz, 0.1% THD EIA 1 kHz, 0.1% THD	650W 750W	950W 1050W	1200W 1350W	1800W 2000W	2200W 2500W		
2 ohms FTC 20 Hz - 20 kHz, 0.1% THD EIA 1 kHz, 0.1% THD	900W 1000W	1250W 1500W	1600W 2000W	2400W 2750W	3000W 3300W		
	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	3600W 4000W	4400W 5000W		
4 ohms EIA 1 kHz, 0.1% THD	2000W	3000W	4000W	5500W	6600W		
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	pping Factor >= 500@8ohms			>=1500@8ohms	>=2500@8ohms		
Distortion (SMPTE-IM)	<0.02%						
Distortion (Typical) 20Hz-20kHz: 10dB below rated power 1 kHz and below: full rated power	<0.02% <0.02%						
Output Circuitry	CLASS H Topology						
Input Sensitivity	0.775V, 26dB, 32dB 0.775V, 26bB, 36dB						
S/N ratio (rated power)	>= 107 dB						
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	9.9 A, 230C AC(±10%), 50-60Hz	11.5 A, 230C AC(±10%), 50-60Hz		
Rack space	2U			3U			
Dimensions (WxHxD)	482x88x453mm 19.0"x3.5"17.8"			482x132x499mm 19.0"x5.2"x19.7"	482x132x506mm 19.0"x5.2"x20.0"		
Weight	17Kg (37.5lbs)	20Kg (44.0lbs)	22Kg (84.5lbs)	35Kg (77.2lbs)	41Kg (90.4lbs)		

