

M-PRO & X-PRO Series



X-PRO3
2500 + 800 + 800 W
1500 + 1500 W (Bridge Mode)



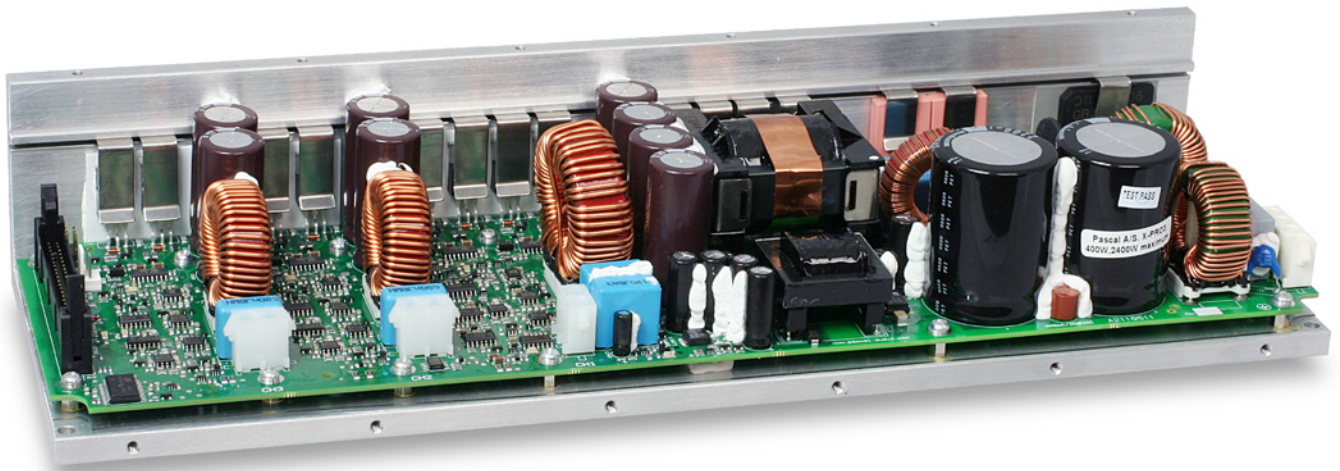
X-PRO2
2500 + 700 W



X-PRO1
2500 W



M-PRO2
800 + 800 W
1400 W (Bridge Mode)



X-PRO3 Power Amplifier Unit with dedicated high power channel and two mid power channels

The Pascal M-PRO & X-PRO series is a dedicated pro audio platform for 1, 2 and 3-way self-powered loudspeakers. The X-PRO series has a dedicated high power channel and mid powered channels to match the asymmetrical power requirements of multi-way loudspeakers.



Ultra High Power

The Pascal X-PRO series has a dedicated high power channel and up to two mid power channels. This asymmetrical power distribution matches the power requirements of typical multi-way loudspeakers or small loudspeaker systems. The unique XPC™ circuitry enables the high power channel to deliver up to 2500 Watts on a loudspeaker load.



Fully Self-Protected

The amplifier module protection scheme is the most comprehensive in the pro audio industry and is designed after an audio-at-all-times principle. All relevant protection features have been implemented individually for the SMPS as well as for each amplifier channel ensuring high reliability.



Unmatched Sonic Performance

Thanks to Pascal's proprietary UMAC™ Class-D technology, Pascal amplifier modules delivers unmatched audio specifications. This UMAC™ technology is the reason the Pascal M-PRO & X-PRO series has the highest dynamic range and the lowest distortion in the pro audio industry.



Advanced Readouts for DSP/Network

In addition to the conventional readouts and auxiliary power, the Pascal amplifier modules offers a wide range of advanced real time readouts, such as voltage, current and temperature. This offers the possibility to fully interface to even the most advanced DSP- and network solutions.



Universal Mains

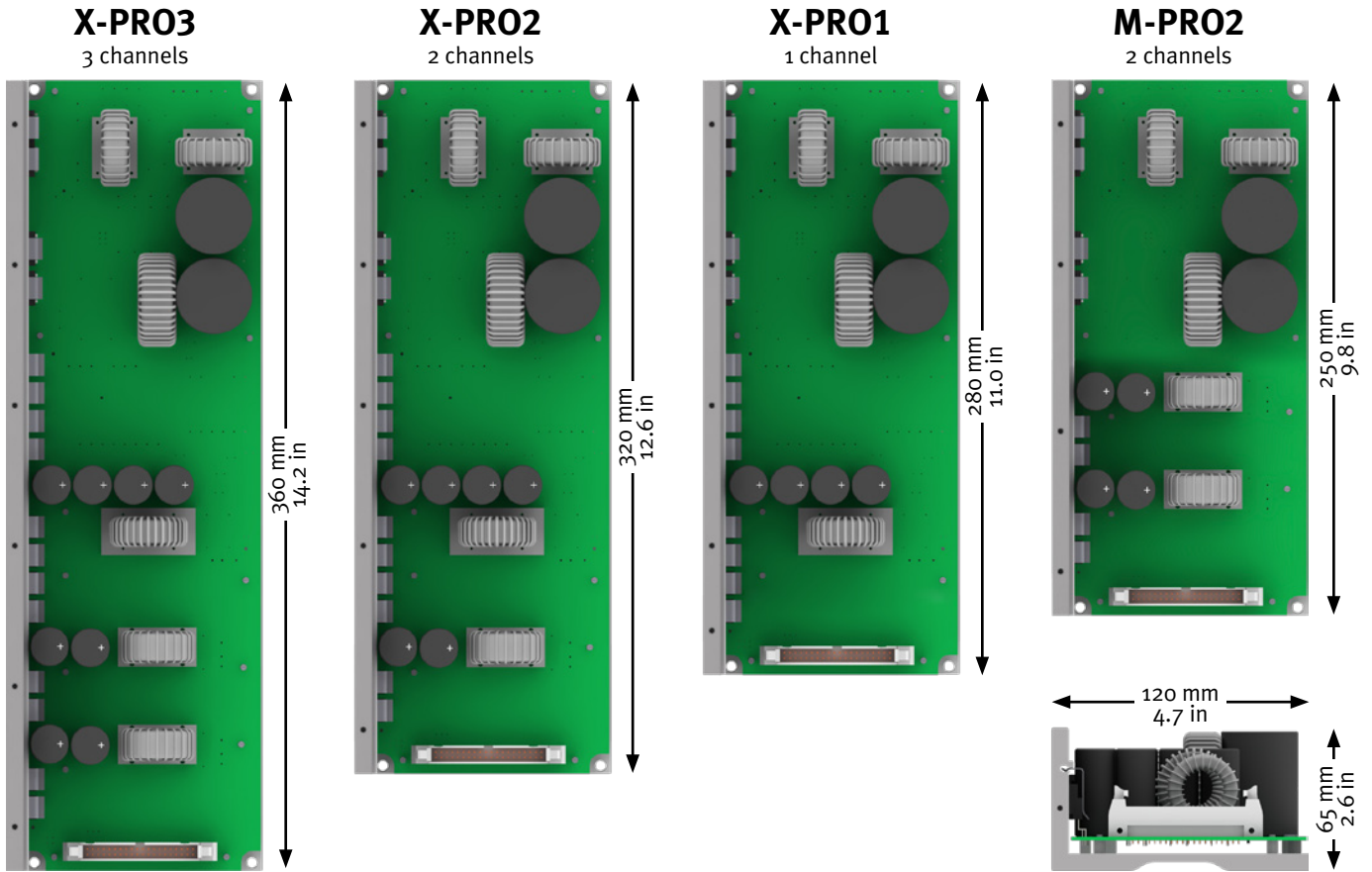
Pascal's UREC™ power supply technology integrated in Pascal amplifier modules provides universal mains operation for 120 V and 230 V, eliminating the need for market specific selfpowered loudspeakers and related reliability issues. The power supply is regulated delivering consistent power world-wide.



Safety Approved - EMC Compliant

Pascal amplifier modules are safety approved and verified for EMC compliance. CB test certificates are available for easy market approval of the final selfpowered loudspeaker.

Specifications:



Power Ratings (RMS @ 1% THD @ 230Vac)

	Impedance	Channel 1	Channel 2	Channel 3	Bridge
X-PRO3	4 Ω	2500 W* / 2000 W	800 W	800 W	
	8 Ω	1500 W	400 W	400 W	2 x 1500 W
X-PRO2	4 Ω	2500 W* / 2000 W	700 W		
	8 Ω	1500 W	400 W		
X-PRO1	4 Ω	2500 W* / 2000 W			
	8 Ω	1500 W			
M-PRO2	4 Ω	800 W	800 W		
	8 Ω	400 W	400 W		1400 W

Output Circuitry	UMAC™ Class D - full bandwidth PWM modulator with ultra low distortion
Output Voltage	Channel 1 on X-PRO series: 160 V _p / 320 V _{pp} unloaded All other channels: 80 V _p / 160 V _{pp} unloaded
Amplifier Gain	Channel 1 on X-PRO series: 32 dB All other channels: 26 dB
Signal To Noise-Ratio	> 120 dB (A-weighted, 20 Hz - 20 kHz, 8 Ω load)
THD+N (typical)	< 0,05 % (20 Hz - 20 kHz, 8 Ω load, 3 dB below rated power)
Frequency Response	20 Hz - 20 kHz (+0/-0.25 dB (8 Ω load, 3 dB below rated power)
Damping Factor	> 1000 (8 Ω load, 1 kHz and below)
Protection Circuits	Input limiter, short circuit protection, DC protection of output, under & over voltage protection, intelligent mains fuse protection, power stage overload protection, temperature protection of transformers and heat-sinks
Readouts for DSP/Network	Protect/Disable (mute), Heatsink temperature, Clip (for each channel), Output voltage (for each channel), Output current (for each channel), SMPS Limit (power supply limiter)
Power Supply	UREC™ universal & regulated switch mode power supply
Operation Voltage	Universal Mains, 85-268V (dual voltage auto selection)
Control Options	Sleep Mode (only +7 V live), Disable outputs (mute), Temperature reduction ON/OFF
Aux. Power for DSP	±15 V (150 mA), +7 V (1 A, delivered by standby power supply)
Weight	X-PRO3: 2,6 kg/5,7 lbs - X-PRO2: 2,3 kg/5,1 lbs - X-PRO1: 2,0 kg/4,4 lbs - M-PRO2: 1,6 kg/3,5 lbs

All specifications are typical values

* Power rating on typical loudspeaker load enabled by the XPC™ (Excessive Power Control) circuitry