

XP5000 / XP5100

XP5000

5000W Stereo Power Amp

XP5100

5000W Stereo Power Amp with Subwoofer Output

Performance Indicators: 3 Signal; Clip/Limiter; Bridge/Parallel Modes

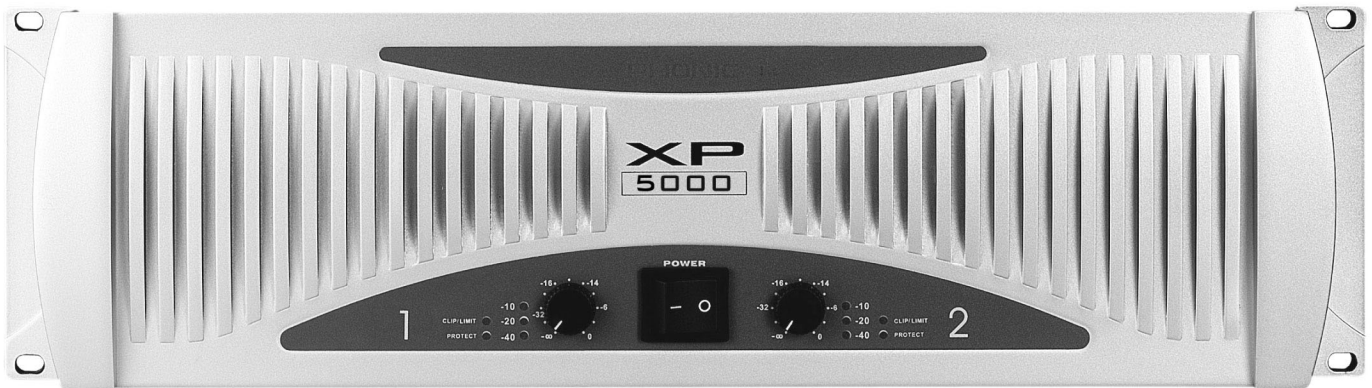
High-current toroidal transformers for greater 2 ohms power and lower noise

Dual mono, high current power supply for increased reliability and performance

Balanced 1/4" TRS, XLR and barrier strip inputs for maximum flexibility

Selectable high pass filters (30 Hz or 50 Hz) protect speakers and increase headroom

Complete amplifier protection



FEATURES

- ▶ 2500W + 2500W @ 2 ohms; 5000W @ 4 ohms bridged
- ▶ Dual mono, high current power supply for increased reliability and performance
- ▶ High-current toroidal transformers for greater two-ohm power and low noise
- ▶ Independent user-defeatable clip limiters reduce distortion
- ▶ Selectable high pass filters (30 Hz or 50 Hz) protect speakers and increase headroom
- ▶ Balanced 1/4" (6.3 mm) TRS, XLR, and barrier strip inputs for maximum flexibility
- ▶ Binding post and Speakon®-type outputs
- ▶ Selectable stereo, parallel & bridge mono amp modes
- ▶ Ground lift switch to prevent hum
- ▶ Signal level at -40, -20, -10, protect and clip LED indicators to monitor performance
- ▶ Bridge mono and parallel mode indicators
- ▶ Front mounted detented gain controls for easy access
- ▶ Fast Recovery design for lower distortion at clipping
- ▶ Advance protection circuitry guards against: short circuit, open circuit, thermal, ultrasonic, and RF protection, stable into mismatched loads, on/off muting, DC fault output crowbar
- ▶ Three rack unit high

XP 5100 Only

- ▶ Two selectable low pass filters at 60, 90 or 120 Hz for subwoofer use

Phonic XP Power Amplifiers are specially designed for professionals who value high power, audio clarity, reliability and lasting performance. The XP series 2100, 3100, and 5100 models feature sub woofer outputs of 60, 90 or 120 Hz. XP power amplifiers are built around robust and advanced toroidal transformers that deliver clean power on demand.

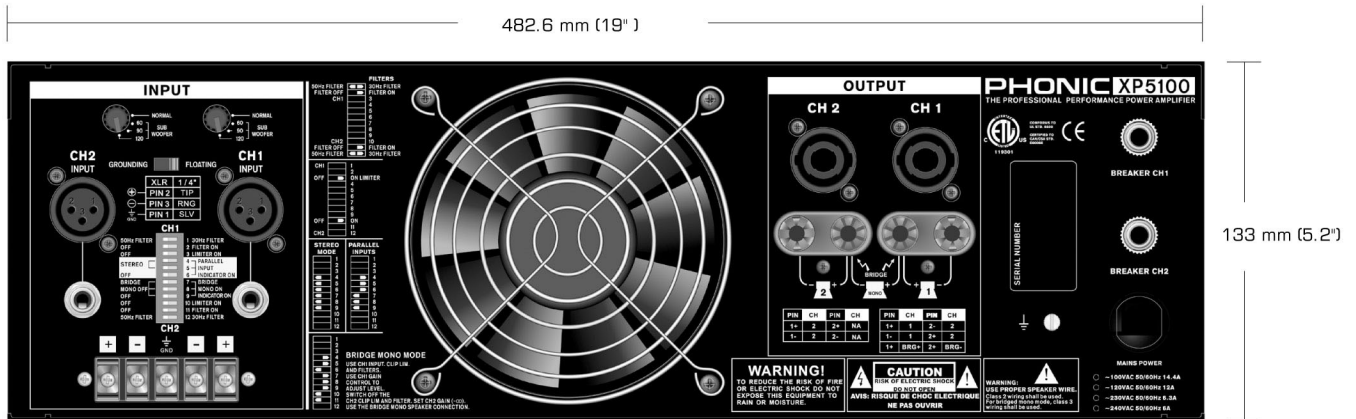
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Specifications

Stereo Mode (both channels driven)	Continuous Average Output Power Per Channel
8 ohms FTC 20Hz-20kHz 0.1% THD	1050
4 ohms FTC 20Hz-20kHz 0.1% THD	1600
2 ohms FTC 20Hz-20kHz 0.1% THD	2000
8 ohms EIA 1kHz 0.1% THD	1100
4 ohms EIA 1kHz 0.1% THD	1800
2 ohms EIA 1kHz 1% THD	2500
Bridge Mono Mode	Continuous Average Output Power
8 ohms FTC 20Hz-20kHz 0.1% THD	3200
8 ohms EIA 1kHz 0.1% THD	3600
4 ohms EIA 1kHz 1% THD	5000
Subwoofer output(XP5100 Only)	Selectable subwoofer crossover at 60Hz, 90Hz, 120Hz
Distortion(SMPTE-IM)	<0.02%
Distortion(Typical) 20Hz-20k Hz: 10 dB below rated power	<0.02%
Distortion(Typical) 1k Hz and below: full rated power	<0.02%
Frequency Response	20Hz-20kHz, 8 ohms, LF filter bypassed, +0/-1 dB 5 Hz to 50 kHz, 8 ohms, LF filter bypassed, +0/-3 dB
Damping Factor	>250 @ 8 ohms
Noise (unweighted)	100 dB below rated output (20 Hz to 20 kHz, 8 ohms load)
Input sensitivity	1.42 Vrms for 1050 watts into 8 ohms
Control Front	AC power switch, Ch1 & Ch2 gain control with 41 detents
Control Rear	12-pole DIP switch featuring high pass filter on/off,

	high pass filter 30/50 Hz, Clip Limiter on/off control for each channel and switches for selecting Stereo, Parallel, or Bridge Mode. Push-button circuit breaker for each channel. Slide switch for Grounding / Floating. Selectable low pass filter frequency at 60Hz, 90Hz and 120Hz.
Voltage Gain	41x (36dB)
Input Impedance	20 k ohms balanced, 10 k ohms unbalanced
Indicators	Power-On: Amber Phonic logo; Parallel: Green backlight icon; Bridged: Red backlight icon CLIP/LIM: Red LED; PROTECT: Yellow LED; Green LED for -10dB, -20dB and -40dB Signal Lights
Connectors Input	XLR, 1/4" TRS jacks and barrier strip
Connectors Output	Binding posts and speakon outputs (Ch 1 speakon wired for biamp)
Cooling	Continuous variable-speed fan, rear-to-front air flow
Amplifier Protection	Short circuit, open circuit, thermal, ultrasonic, and RF protection. Stable into mismatched loads
Load Protection	on/off muting, DC fault output crowbar
Output Circuitry	Class H Amplifier
Power Requirements (depends on region)	100-120VAC, 220-240VAC (+/- 10%), 50/60Hz (factory configured); 120V model requires 20 amp
Circuit Breakers	two (one for each channel): 100 and 120 V models: 20 amp / 230 V models: 10 amp
Dimensions (WxHxD)	482.6 x 133 x 415mm (19" x 5.2" x 16.3")
Weight	28.2kg (62.1bs)



XP5100 Back Panel

V1.1 11/26/04
Information in this document is
subject to change without notice.