

XP Series

Power Amplifiers



XP7000

XP5000

XP3500

XP2500

XP1000

XP7000 Rear Panel



Five superb amplifiers optimized for installation use.

- Advanced circuit design and anti-vibration measures inherited from the PC-1N series deliver tight, solid lows, extraordinary midrange presence, and precisely defined highs.
- Exclusive Yamaha EEEngine technology achieves unmatched efficiency.
- +4dBu/26dB/32dB gain switch for flexible level matching.
- Lightweight, compact 2U design for easy handling and installation.
- Monitor and Remote terminals for remote monitoring and control.
- Precision 1-dB/step detented attenuators.
- XLR and Euroblock input terminals.
- Speakon and 5-way binding post output terminals.
- Frequency-switchable high-pass filter for subsonic noise reduction or subwoofer matching.
- Comprehensive protection circuits, indicators and variable-speed cooling.
- Ideal matches for the DME64N/24N Digital Mixing Engines and Installation Series speakers.
- XP7000 can be used to drive 70V lines (stereo), while XP3500 is compatible with 100V lines (bridged) for high-impedance multi-speaker systems.

GENERAL SPECIFICATIONS

Model		XP7000	XP5000	XP3500	XP2500	XP1000
Output Power	4Ω per channel	1100W	750W	590W	390W	165W(120V),155W(230V)
	8Ω per channel	750W	525W	390W	275W	135W(120V), 125W(230V), 120W(240V)
1kHz	8Ω / BRIDGE	2200W	1500W	1180W	780W	330W(120V), 310W(230V)
	2Ω per channel	1600W	1300W	1000W	650W	250W
THD+N=1%	4Ω per channel	1100W	750W	590W	390W	165W
	8Ω per channel	750W	525W	390W	275W	135W
1kHz	4Ω / BRIDGE	3200W	2600W	2000W(120V/240V), 1850W(230V)	1300W	500W
	8Ω / BRIDGE	2200W	1500W	1180W	780W	330W
20ms Burst	4Ω per channel	950W	700W	450W(120V/240V), 430W(230V)	310W(120V/240V), 295W(230V)	125W(120V), 115W(230V),110W(240V)
	8Ω per channel	700W(120V/240V), 90W(230V)	500W	350W	250W + 250W	110W(120V), 100W(230V/240V)
20Hz-20kHz	8Ω / BRIDGE	1900W	1400W	900W	600W(120V/240V), 590W(230V)	250W(120V), 230W(230V), 220W(240V)
	70Vper channel RL=8Ω	625W	-	-	-	-
THD+N=0.1%	100V / BRIDGE RL=16Ω	-	-	625W	-	-
Input	Att.max Switch Position	+4dBu 26dB 32dB	+4dBu 26dB 32dB	+4dBu 26dB 32dB	+4dBu 26dB 32dB	+4dBu 26dB 32dB
Sensitivity (dBu)	RL=8Ω Att.max	+4 +13.7 +7.7	+4 +12.2 +6.2	+4 +10.7 +4.7	+4 +9.2 +3.2	+4 +5.2 -0.8
S/N Ratio	20Hz-20kHz	104dB	103dB	102dB	100dB	96dB
Idle Power Consumption		35W	35W	30W	25W	20W
1/8 Power Consumption (4Ω/Pink noise)		650W	500W	450W	320W	170W
Power Bandwidth	(half power THD+N=0.5%)	10Hz-40kHz				
THD+N	20Hz – 20kHz, half power	0.1%				
Intermodulation Distortion	60Hz: 7kHz, 4:1, half power	0.1%				
Frequency Response	8Ω, Po=1W,HPF=OFF	MAX 0dB, TYP 0dB, MIN -1dB fs=20H-50kHz				
Channel Separation	Half power RL=8Ω 1kHz ATT. Max input 600Ω shunt	70dB				
Residual Noise Att. min	20Hz-20kHz (DIN AUDIO)	-70dB				
Damping Factor	8Ω, f=1kHz	350(XP7000, XP5000) / 200(XP3500, XP2500, XP1000)				
Voltage Gain	ATT. max	32dB or 26dB or +4dBu input sensitivity by selecting switch				
Maximum Input Voltage		+22dBu				
Input Impedance		20kΩ (balanced) 10kΩ (unbalanced)				
Controls	Front panel Rear panel	POWER switch(push on/push off), attenuator(31position) x 2 MODE switch(STEREO/BRIDGE/PARALLEL) x 1, HPF switch (20Hz/55Hz/OFF 12dB/oct) x 2, GAIN SELECT switch(32dB/26dB/+4dBu) x 1				
Connectors	Input Output MONITOR/REMOTE	XLR-3-31 type/ch, Euroblock connector(balanced)/ch SPEAKON/ch, 5way binding post x 1 Dsub15P x 1				
Indicators		POWER/STANDBY x 1(Green/Orange), SIGNAL x 2(Green), CLIP/LIMIT x 2(Red), PROTECTION x 1(Red), TEMP x 1(Red) heatsink temp ≥ 85°C				
Load Protection		POWER switch on/off mute, DC-fault:power supply shutdown/do not return automatically.(XP7000, 5000), output relay off/return automatically.(XP3500,2500,1000), clip limiting :THD ≥ 0.5%				
Amplifier Protection		Thermal: cut the output(heatsink temp ≥ 90°C) do not return automatically. VI limiter(RL ≤ 1Ω): Limit the output				
Power Supply protection		Thermal: power supply shutdown(heatsink temp ≥ 100°C)do not return automatically. (XP7000,5000), power supply shutdown(transformer temp ≥ 130°C)return automatically. (XP3500,2500,1000)				
Limiter Circuit		Clip limiting :THD ≥ 0.5%				
Cooling		Variable-speed fan: x 1(XP3500, 2500, 1000), x 2(XP7000, 5000) (Fan stop at heatsink temp ≤ 55°C)				
Power Requirements		120V/60Hz, 230V/50Hz, 240V/50Hz				
Dimensions (W x H x D)		480 x 88 x 456 mm (18-7/8" x 3-7/16" x 17-15/16")				
Weight		14kg (30.9 lbs.)	14kg (30.9 lbs.)	15kg (33.1 lbs.)	14kg (30.9 lbs.)	12kg (26.5 lbs.)
Included Accessories		Security cover (with a hex wrench), Owner's Manual				

*1: 1/8 Power = 9dB below rated power

*2: Half Power = 3dB below rated power

*3: 0dBu = 0.775Vrms

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DIMENSIONS

