

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.
- 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	XP7000	XP5000	XP3500	XP2500	XP1000
			120V/240V					230V				
Output Power	1kHz, THD+N = 1%	4Ω	1100W x 2	750W x 2	590W x 2	390W x 2	165W x 2 (120V) 155W x 2 (240V)	1100W x 2	750W x 2	590W x 2	390W x 2	155W x 2
		8Ω	750W x 2	525W x 2	390W x 2	275W x 2	135W x 2 (120V) 120W x 2 (240V)	750W x 2	525W x 2	390W x 2	275W x 2	125W x 2
		8Ω bridge	2200W	1500W	1180W	780W	330W (120V) 310W (240V)	2200W	1500W	1180W	780W	310W
	1kHz, 20ms burst	2Ω	1600W x 2	1300W x 2	1000W x 2	650W x 2	250W x 2	1600W x 2	1300W x 2	925W x 2	650W x 2	250W x 2
		4Ω bridge	3200W	2600W	2000W	1300W	500W	3200W	2600W	1850W	1300W	500W
	20Hz ~ 20kHz, THD+N = 0.1%	4Ω	950W x 2	700W x 2	450W x 2	300W x 2	125W x 2 (120V) 110W x 2 (240V)	950W x 2	700W x 2	435W x 2	295W x 2	115W x 2
		8Ω	700W x 2	500W x 2	350W x 2	250W x 2	110W x 2 (120V) 100W x 2 (240V)	690W x 2	500W x 2	350W x 2	250W x 2	100W x 2
8Ω bridge		1900W	1400W	900W	600W	250W (120V) 220W (240V)	1900W	1400W	870W	590W	230W	
High Impedance	100V Line	-	-	625W/16Ω (Bridge)	-	-	-	-	625W/16Ω (Bridge)	-	-	
	70V Line	625W x 2/8Ω	-	-	-	-	625W x 2/8Ω	-	-	-	-	
Voltage Gain	RL=8Ω	26dB/32dB					26dB/32dB					
	+4dBu position	35.7dBu	34.2dBu	32.7dBu	31.2dBu	27.2dBu	35.6dBu	34.2dBu	32.7dBu	31.2dBu	27.2dBu	
Input Sensitivity	RL=8Ω	+4dBu					+4dBu					
	26dB position	+13.7dBu	+12.2dBu	+10.7dBu	+9.2dBu	+5.2dBu	+13.6dBu	+12.2dBu	+10.7dBu	+9.2dBu	+5.2dBu	
	32dB position	+7.7dBu	+6.2dBu	+4.7dBu	+3.2dBu	-0.8dBu	+7.6dBu	+6.2dBu	+4.7dBu	+3.2dBu	-0.8dBu	
S/N Ratio	20Hz-20kHz, DIN AUDIO	104dB	103dB	102dB	100dB	96dB	104dB	103dB	102dB	100dB	96dB	
Power Consumption	1/8 power (4Ω pink noise)	650W	500W	450W	320W	170W	650W	500W	450W	320W	170W	
	Idle	35W	35W	30W	25W	20W	35W	35W	30W	25W	20W	
	Standby	5W	5W	5W	5W	5W	5W	5W	5W	5W	5W	
THD+N	20Hz-20kHz, 1/2 power, RL=4Ω	Less than 0.1%										
Frequency Response	RL=8Ω, Po=1W, 20Hz - 20kHz	+0dB, -1.0dB										
Crosstalk	1kHz, half power, 8Ω Att. max, input 600Ω shunt	Less than -70dB										
Damping Factor	RL=8Ω, 1kHz	More than 350			More than 200			More than 350		More than 200		
Maximum Input Level		+22dBu										
Input Impedance		20kΩ (balanced), 10kΩ (unbalanced)										
Controls	Front Panel	POWER switch x 1 (push on/push off), Attenuator x 2 (31position)										
	Rear panel	MODE switch x 1 (STEREO/BRIDGE/PARALLEL), HPF switch x 2 (20Hz/55Hz/OFF) (12dB/oct), GAIN switch x 1 (+4dBu/26dB/32dB)										
Connectors	Input	XLR-3-31 type x 2, Euroblock connector x 2 pairs (balanced)										
	Output	Neutrik® SPEAKON® NL4 x 2, 5-way binding post x 2 pairs										
	Monitor/Remote	D-SUB 15P x 1										
Indicators		POWER/STANDBY x 1 (Green/Orange), PROTECTION x 1 (Red), TEMP x 1 (Red) heatsink temp ≥ 85°C, SIGNAL x 2 (Green), CLIP/LIMIT x 2 (Red)										
Load Protection		POWER switch on/off mute, DC-fault: Amplifier shuts down automatically (XP7000, XP5000 Operation not restored automatically) Output Relay Off (XP3500, XP2500, XP1000 returns automatically), Clip limiting: THD ≥ 0.5%										
Amplifier Protection		Thermal: Output Mute (heatsink temp ≥ 90°C) (Operation not restored automatically), VI limiter (RL ≤ 1Ω): Limit the output										
Cooling Fan		Variable-speed fan x 2			Variable-speed fan x 1			Variable-speed fan x 2		Variable-speed fan x 1		
Power Requirements		120V, 220V-240V; 50Hz/60Hz										
Dimensions (WxHxD)		480 x 88 x 456mm (18-7/8" x 3-7/16" x 17-15/16")										
Weight		XP7000, XP5000, XP2500: 14kg (30.9lbs), XP3500: 15kg (33.1lbs), XP1000: 12kg (26.5lbs)										
Included Accessories		Security cover x 1, Euroblock connector x 2 (3P), Owner's manual										

* Half power = 1/2 power output level

DIMENSIONS

unit : mm

