

# P-S Series



## Power Amplifiers



P7000S

P5000S

P3500S

P2500S

P7000S Rear Panel



***Reliable, professional-quality power amplification for a broad range of applications.***

- In 4Ω bridged mode the P7000S delivers 3200 watts, the P5000S 2600 watts, the P3500S 2000 watts, and the P2500S 1300 watts.
- Yamaha's exclusive EEEngine technology significantly reduces power consumption and heat generation.
- Independent sweepable high-pass and low-pass filters on each channel so you can optimize output for subwoofer or full range systems.
- Neutrik Speakon output jacks and 1/4-inch output jacks for each channel, in addition to 5-way binding post.
- Balanced XLR and 1/4-inch TRS jacks are provided for channel input.
- Variable-speed fans offer quiet, efficient cooling.
- Comprehensive protection includes power on/off muting, DC detection, thermal protection, current limiting, and a protective cover for the attenuators.
- YS Processing (Yamaha Speaker Processing) achieves optimum matching with Yamaha Club Series loudspeaker systems.

## P-S Series

### GENERAL SPECIFICATIONS

Model		P7000S	P5000S	P3500S	P2500S
<b>Output Power</b>	4Ω per channel	1100W	750W	590W	390W
	1kHz 8Ω per channel	750W	525W	390W	275W
	THD+N=1% 8Ω / BRIDGE	2000W	1500W	1180W	780W
20Hz-20kHz	4Ω per channel	950W	700W	450W	310W
	8Ω per channel	700W / 650W(230V)	500W	350W	250W
	THD+N=0.1% 8Ω / BRIDGE	1900W	1400W	900W	620W
1kHz	2Ω per channel	1600W	1300W	1000W	650W
	20mS nonclip 4Ω / BRIDGE	3200W	2600W	2000W	1300W
<b>Sensitivity (dBu)</b>	RL=8Ω Att. max	+8.0	+6.0	+4.0	+3.0
<b>S/N Ratio</b>	20Hz-20kHz (DIN AUDIO)	104dB	103dB	102dB	100dB
<b>Idle Power Consumption</b>		35W	35W	30W	25W
<b>1/8 Power Consumption (4Ω)</b>		70W	55W	45W	32W
<b>Power Bandwidth</b>	(half power THD+N=0.5%)	10Hz-40kHz (THD+N=0.5%)			
<b>THD+N</b>	20Hz-20kHz, half power	≤ 0.1%			
<b>Intermodulation Distortion</b>	60Hz: 7kHz, 4:1, half power	≤ 0.1%			
<b>Frequency Response</b>	8Ω, Po=1W,HPF=OFF	MAX 0dB, TYP +0.5dB, MIN -1dB f=20Hz-50kHz			
<b>Channel Separation</b>	Half power RL=8Ω 1kHz ATT. Max input 600Ω shunt	≥ 70dB			
<b>Residual Noise</b>	ATT. Min 20Hz-20kHz (DIN AUDIO)	≤ -70dB			
<b>Damping Factor</b>	8Ω, f=1kHz	≥ 350		≥ 200	
<b>Voltage Gain</b>	ATT. max	32.1dB			
<b>Input Impedance</b>		30kΩ (balanced) 15kΩ (unbalanced)			
<b>Controls</b>	Front panel	POWER switch (push on/push off) attenuator (31position) x 2			
	Rear panel	MODE switch (STEREO/BRIDGE/PARALLEL), FILTER switch (SUB WOOFER/LOW CUT/OFF) x 2, FREQ.CONTROL (25Hz-150Hz) x 2, YAMAHA SPEAKER PROCESSING switch (ON/OFF)			
<b>Connectors</b>	Input	XLR-3-31 type/ch, 1/4" TRS/ch			
	Output	SPEAKON, 5way binding post, 1/4" phone/ch			
<b>Indicators</b>		POWER: x 1 (Green), PROTECTION: x 1 (Red), TEMP: x 1 (Red) heatsink temp ≥ 85°C, YS PROCESSING: x 1 (Yellow), SIGNAL: x 2 (Green), CLIP: x 2 (Red)			
<b>Load Protection</b>		POWER switch on/off mute, DC-fault power supply shutdown(P7000S/5000S), DC-fault power output cut (P3500S/2500S)			
<b>Amplifier Protection</b>		Thermal (heatsink temp ≥ 90°C), VI limiter (RL ≤ 1Ω)			
<b>Limiter Circuit</b>		comp.:THD ≥ 0.5%			
<b>Cooling</b>		Dual variable-speed fan		Single variable-speed fan	
<b>Power Requirements</b>		120V / 60Hz, 230V / 50Hz, 240V / 50Hz			
<b>Dimensions (W x H x D)</b>		480 x 88 x 456 mm (18-7/8" x 3-7/16" x 17-15/16")			
<b>Weight</b>		12kg (26.5 lbs.)	12kg (26.5 lbs.)	15kg (33.1 lbs.)	14kg (30.9 lbs.)
<b>Included Accessories</b>		Security cover (with a hex wrench), Owner's Manual			

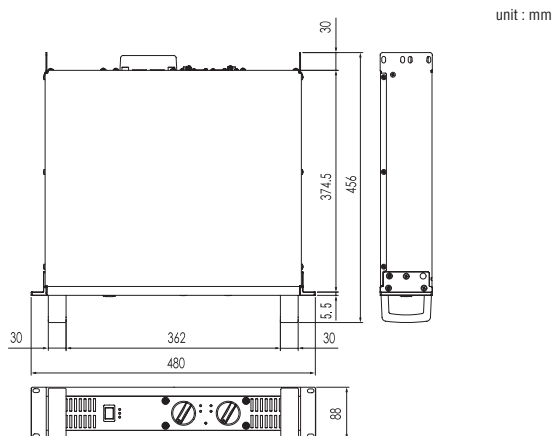
\*1: 1/8 Power = 9dB below rated power

\*2: Half Power = 3dB below rated power

\*3: 0dBu = 0.775Vrms

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### DIMENSIONS



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