P-S Series

Power Amplifiers



P7000S Rear Panel

YSProcessing 20



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

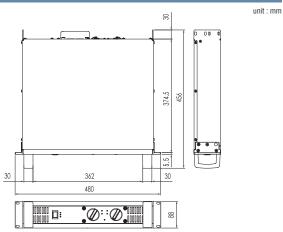
- In 4 bridged mode the P7000S delivers 3200 watts, the P5000S 2600 watts, the P3500S 2000 watts, and the P2500S 1300 watts.
- Yamaha's exclusive EEEngine technology significantly reduces power consumption and heat generation.
- Independent sweepable high-pass and low-pass filters on each channel so 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.

GENERAL SPECIFICATIONS

Model		P7000S	P5000S	P3500S	P2500S
Output Power	4Ω per channel	1100W	750W	590W	390W
1kHz	8Ω per channel	750W	525W	390W	275W
THD+N=1%	8Ω / BRIDGE	2200W	1500W	1180W	780W
	4Ω per channel	950W	700W	450W	310W
20Hz-20kHz	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
Gensitivity (dBu)	RL=8Ω Att. max	+8.0	+6.0	+4.0	+3.0
S/N Ratio	20Hz-20kHz (DIN AUDIO)	104dB	103dB	102dB	100dB
Idle Power Consumption		35W	35W	30W	25W
1/8 Power Consumption (4 Ω)		700W	550W	450W	320W
ower Bandwidth	(half power THD+N=0.5%)	5%) 10Hz-40kHz (THD+N=0.5%)			
HD+N	20Hz – 20kHz, half power	≤ 0.1%			
ntermodulation Distor	tion	≤ 0.1%			
60Hz: 7kHz, 4:1, half power					
requency Response	8Ω, Po=1W,HPF=0FF	MAX +0.5dB, TYP 0dB, MIN -1dB f=20Hz-50kHz			
Channel Separation	Half power RL=8Ω 1kHz	≥ 70d8			
	ATT. Max input 600Ω shunt				
esidual Noise	ATT. Min 20Hz-20kHz (DIN AUDIO)	≤ -70dB			
amping Factor	8Ω, f=1kHz	≥ 350 ≥ 200			200
oltage Gain	ATT. max	32.1dB			
Input Impedance		$30 k\Omega$ (balanced) $15 k\Omega$ (unbalanced)			
Controls	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)			
Connectors	Input	XLR-3-31 type/ch, 1/4" TRS/ch			
	Output	SPEAKON, 5way binding post, 1/4" phone/ch			
ndicators		POWER: x 1 (Green), PROTECTION: x 1 (R	ed), TEMP: x 1 (Red) heatsink temp \ge 85°C	, YS PROCESSING: x 1 (Yellow), SIGNAL: x 2	(Green), CLIP: x 2 (Red)
oad Protection		POWER switch on/off mute, DC-fault power	supply shutdown(P7000S/5000S), DC-fault p	ower output cut (P3500S/2500S)	
Amplifier Protection		Thermal (heatsink temp $\ge 90^{\circ}$ C), VI limiter (RL $\le 1\Omega$)			
Limiter Circuit		comp. :THD ≥ 0.5%			
Cooling		Dual variable-speed fan Single variable-speed fan			
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		12kg (26.5 lbs.)	12kg (26.5 lbs.)	15kg (33.1 lbs.)	14kg (30.9 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

DIMENSIONS



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