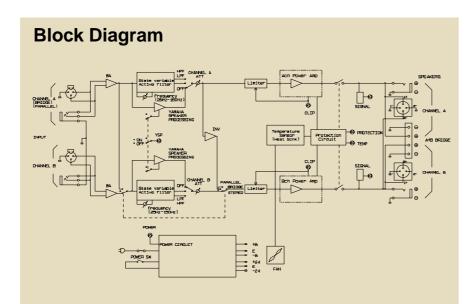
Specifications

| | | 0 - 107575 | P7000S | P5000S | P3500S | P2500S |
|---|---------------------------------|--------------|---|--|-----------------------------------|---------------|
| Output Power | | 8Ω/STEREO | 750W+750W | 525W+525W | 390W+390W | 275W+275W |
| | 1kHz | 4Ω/STEREO | 1100W+1100W | 750W+750W | 590W+590W | 390W+390W |
| | THD+N=1% | 8Ω/BRIDGE | 2000W | 1500W | 1180W | 780W |
| | | 8Ω/STEREO | 700W+700W | 500W+500W | 350W+350W | 250W+250W |
| | 20-20KHz | 4Ω/STEREO | 950W+950W | 700W+700W | 450W+450W | 310W+310W |
| | THD+N=0.1% | 8Ω/BRIDGE | 1900W | 1400W | 900W | 620W |
| | 1KHz | 2Ω/STERE0 | 1600W+1600W | 1300W+1300W | 1000W+1000W | 650W+650W |
| | 20mS nonclip | 4Ω/BRIDGE | 3200W | 2600W | 2000W | 1300W |
| Power Bandwidth | | halfpower | | 10Hz-40kHz (| | |
| THD+N 20Hz-20kHz, half power | | | ≤0.1% | | | |
| Intermodulation Distortion 60Hz: 7kHz, 4:1, half power | | | ≤0.1% | | | |
| Frequency Response P0=1W, RL=8 Ω | | | 0dB, +0.5dB, -1dB f=20Hz-50kHz | | | |
| $\begin{array}{ccc} \textbf{Channel Separation} \\ & \text{half power} & \text{RL=8}\Omega \\ & \text{Att.max} & \text{input } 600\Omega \text{ shunt} \end{array}$ | | | ≥70dB 1kHz | | | |
| Residual noise At | t. min | DIN AUDIO | ≤-70dB | | | |
| S/N ratio | | DIN AUDIO | 104dB | 103dB | 102dB | 100dB |
| Damping Factor | RL=8Ω | 1KHz | ≥3 | 50 | ≥2 | 200 |
| Sensitivity @8Ω | | Att.max | +8dB | +6dB | +4dB | +3dB |
| Voltage Gain | | Att.max | | 32. | 1dB | |
| Input Impedance | | | 30 K Ω (balance) 15 k Ω (unbalance) | | | |
| Controls Front Panel | | | POWER switch (push on/push off) | | | |
| | | | attenuator (31position) × 2 | | | |
| | | Rear Panel | FI FI | IODE switch (STEREC LTER switch (SUB W REQ.CONTROL (25Hz AMAHA SPEAKER PF | 00FER/LOW CUT/0F :-150Hz) × 2 | FF) × 2 |
| Connectors | | Input | | LR-3-31 type/ch /4" TRS/ch | | |
| | | Output | S | PEAKON, 5way biding | g post, 1/4" phone/ch | l |
| Indicators POWER PROTECTION TEMP YS PROCESSING SIGNAL CLIP | | | ×1 (Green) ×1 (Red) ×1 (Red) heatsink temp ≥85°C ×1 (Yellow) ×2 (Green) ×2 (Red) | | | |
| Load Protection | | | POWER switch on/off mute DC-fault power supply shutdown (P7000S/5000S) DC-fault power output cut (P3500S/2500S) | | | |
| Amplifier Protection | | | Thermal (heatsink temp≥90°C) VI limitter (RL≤1Ω) | | | |
| Limitter Circuit | | | CO | omp. :THD≥0.5% | | |
| Cooling | | | Dual variable-speed fan Single variable-speed fan | | | |
| Power Requirements | | | US and Canada model 120V 60Hz Europe model 230V 50Hz Australia model 240V 50Hz | | | |
| rower nequirelis | ents | | | | | |
| Idle Power Consu | | | | | | 25W |
| | mption | (4Ω) | A | ustralia model | 240V 50Hz | 25W 320W |
| ldle Power Consu | mption nption | (4Ω) (4Ω) | 35W | ustralia model 35W | 240V 50Hz 30W | |
| Idle Power Consu | mption nption Consumption | . , | 35W 700W 4000W | ustralia model 35W 550W | 240V 50Hz 30W 450W 2000W | 320W 1600W |

- 0dB=0.775V half power=1/2 output power
- The design & specifications presented in this release are preliminary, and may be changed without notice.



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- All components used in this device have passed Yamaha's stringent quality control.
- This device is designed to comply with the safety standards of, and is certified by, the following organizations. (UL, CSA, SEMCO...)
- Yamaha has gained accreditation from NVLAP* as an in-house testing facility for electromagnetic compatibility and telecommunications.
- * The NVLAP is the National Voluntary Laboratory Accreditation Program that is administered by the United States' NIST (National Institute of Standards and Technology) which, based on the ISO Guide 25, strictly checks the overall quality systems, the facilities and its employees.











http://www.yamaha.co.jp/english/ http://www.yamaha.co.jp/product/proaudio/homeenglish/



'KANDO' ... Inspiring the Heart and Spirit.

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Robust Power Output, Superior Audio Quality, Efficient Operation, and Excellent Cost Performance

Yamaha's audio engineers have designed the new P-Series Power Amplifiers as perfect mates to the popular Club Series loudspeakers. To achieve this, they provided them with big power output that matches the power handling capabilities of the Club Series Speakers, and equipped them with YS Processing (Yamaha Speaker Processing) to deliver a signal that is tuned to the needs of these loudspeakers.

Big power output is evident in their power ratings, from 3200 watts for the P7000S to 1300 watts from the P2500S, operating at 4-ohms bridged. This power output also best matches the power handling capabilities of our Club Series Speakers. So, if you want to drive a pair of Club S115s with 500-watt program ratings, the P5000S, with 500-watts per channel into 8-ohms, makes it the perfect choice.

Further matching is found in Yamaha's proprietary YS Processing. Each model is equipped with this specially designed circuit that delivers output tailored to the specific response of the Club Series speakers for superior audio

quality and performance. All models feature both XLR and 1/4-inch TRS inputs and Neutrik Speakon[™], phone plug, and 5-way binding post outputs to make connections quick and easy.



Big Output Power Delivered with Great Efficiency

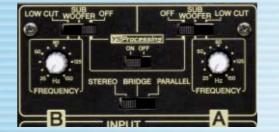
The new P-Series Power Amplifiers deliver a robust amount of professionalquality power in a wide range of configurations designed to suit most any need. In a 4ohm bridged application, the P7000S delivers 3200 watts, the P5000S delivers 2600 watts, the P3500S 2000 watts, and the P2500S 1300 watts.

Those on a budget will find the lineup's high power output and affordable prices deliver higher quality without putting a strain on funds. Further savings are realized with extremely efficient operation utilizing Yamaha's exclusive EEEngine technology which keeps operational costs down by significantly reducing AC power consumption and heat genera-**EEEngine** tion.

The Perfect Match with Your Club Speakers

The new P-Series Power Amplifiers can be used with any loudspeaker system, but if you're using our Club Series, they will provide power and performance tailored to deliver maximum performance from your system. In an 8-ohm stereo application power output per channel on the P7000S is 700 watts, the YS Processing P5000S 500

watts, the P3500S 350 watts, and the P2500S 250 watts. This wide selection lets you choose the amplifier that best matches the power handling capabilities of your speaker system



All four models are equipped with independent sweepable high and low pass filters on each channel so you can optimize output for subwoofer or full range systems to provide peak audio quality and performance from any speaker system you may be using.

Light Weight Keeps Transport and Setup Easy

Look at the specifications and you'll notice that the P2500S and P3500S are respectably light in weight making transport and setup less strenuous. What's amazing though, is the comparison in weight per wat when you look at the P5000S and P7000S. The use of a switching power supply makes these two models very lightweight while maintaining superior audio quality.

Flexible Connectivity

To provide the most flexible connectivity possible, all four models are equipped with

Neutrik Speakon[™] output jacks, and 1/4-inch output jacks for each channel in



addition to 5-way binding post. Channel inputs consist of both XLR and 1/4-inch TRS jacks.

* Speakon is the registered trademark of Neutrik AG.

Other Features

The new P-Series' industrial design delivers a refined and impressive look with deep blue faceplates bordered in silver trim, handles, and mounts. The chassis is specially designed to provide added durability and strength. Continuously variable-speed fans mounted internally on either side of the front panel offer quiet, efficient cooling. Comprehensive protection consists of power on/off muting, DC detection, thermal protection, current limiting, and a protective cover for the attenuators is also supplied



YS Processina

With YS Processing (Yamaha Speaker Processing), you get direct compatibility with our popular Club Series loudspeaker systems This special circuit optimizes output from the power amplifier to match the characteristics of Club Series speaker systems delivering a signal that is precisely what the speaker requires. With the YS Processing system, extra-smooth highs and enhanced lowfrequency from your Club Series loudspeaker system is assured.

EEEnaine

EEEngine (Energy Efficient Engine) Technology makes more efficient use of AC power by reducing power consumption and heat generation without degrading output power or

sound quality. When power requirements are low, the system uses a highly efficient current

buffer to transparently switch input power on

increase, an independently responding auxiliary

and off as needed. As power requirements

power line supplies additional power as

required. Output isn't compromised, as the

auxiliary power line is driven by the power

supply voltage, which maintains maximum

Power Consumption Comparison

output to the speaker load.

P7000S Front Pane





