

PS1400
Stereo power amplifier



DESCRIPTION

The PS1400 model is a two-channel stereo amplifier with a power delivery capability of up to 700 W per channel at 4 Ω, with the possibility of a mono mode capability of 1200 W at 8 Ω. All amplifiers in the Professional Series line have been designed for the specific requirements of the world of professional audio, according to criteria of maximum reliability and ease of use. Power delivery remains constant even at high loads, with low heat dissipation and high performance thanks to low-leakage toroidal transformers, which provide an extra margin above the stated nominal output. Each of the power stages is completely independent in terms of both electrical and heat protections since each channel has its own heat sink and independent temperature control acting directly on the cooling fan. The signal is constantly monitored through a LED control on the front panel of the amplifier. An internal limiter provides loudspeaker system protection against damage caused by signal distortion. Cutting-edge electronic parts and high-level circuit engineering guarantee top efficiency standards. Thanks to its rigid chassis, the amplifier can withstand even the toughest fixed installation, guaranteeing maximum reliability at all times and under any operating conditions.

FEATURES

- High electro-mechanical efficiency and reliability
- Class AB output circuitry
- Automatic Soft Clip Limiter
- Complete protection systems
- Cannon® XLR inputs
- Neutrik® SpeakON outputs
- Forced air ventilation and maximum heat dissipation
- Designed for 19" rack unit installation (3 RU).

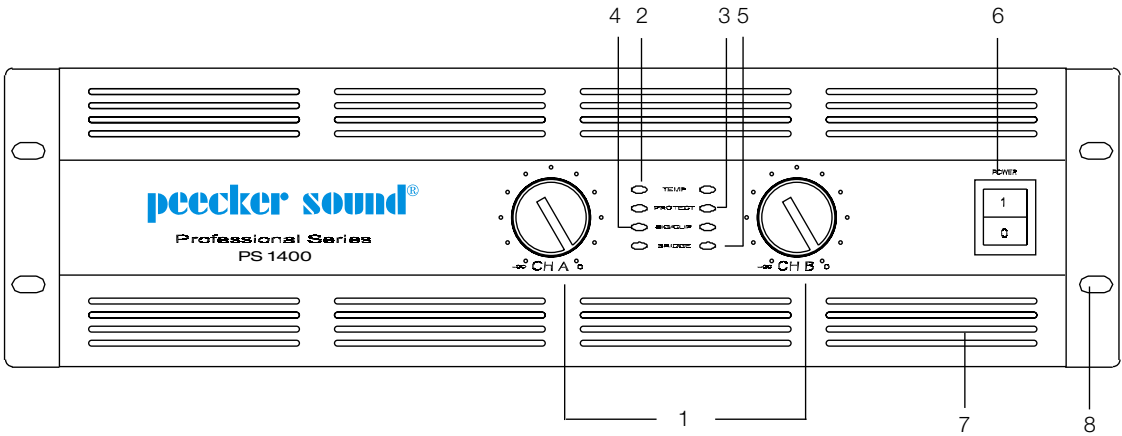
Table with 2 columns: Feature and Specification. Rows include Power Output (450W/700W), Bridged Mono Power (1300W), Frequency Response (20Hz-20kHz), SNR (>100dB), Distortion (<0.1%), Input Gain Controls, Input Impedance (30kΩ), Input Sensitivity (0dBu), Crosstalk (>50dB), Phase Response, Damping Factor (>200), Input Connectors (3-pin Cannon XLR), Output Connectors (Neutrik speakON), Controls (Front: power switch, ChA/ChB gain potentiometers; Rear: mode and limit switches), Led Indicators (Temperature, Protect, Signal/Clip, Bridge), Amplifier Protections (overload, full short circuit, thermal, ultrasonic and radio frequency immunity), Load Protections (soft-start, soft clip limiter, DC-fault), Circuitry (class AB), Cooling (front to rear air flow, fan speed in function of temperature), Power Requirements (230 VAC ± 10%, 50-60 Hz), Dimensions (483 x 132 x 488 mm), Net Weight (22 kg), and Approvals (CE EN55103-1, CE EN55103-2, CE EN6065, Class I).

All measurements have been taken in Sound Corporation research laboratories

PS amplifiers

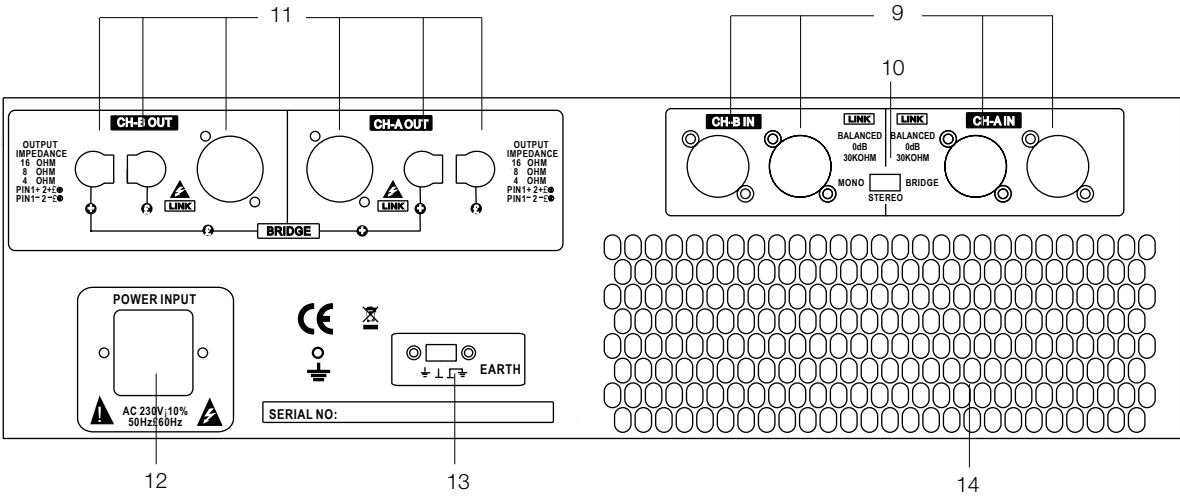


FRONT PANEL



- 1. CHA/CHB – Precision level control for each channel.
- 2. Temp – LED indicator that lights up when the overheat protection is tripped, for each channel.
- 3. Protect – LED indicator that lights up when the output overload or short circuit protection is tripped, for each channel.
- 4. Clip – LED indicator for signal clip point for each channel.
- 5. Signal – LED indicator showing the presence of an input signal for each channel.
- 6. Power – ON/OFF switch.
- 7. Ventilation grille.
- 8. Holes for standard rack assembly.

REAR PANEL



- 9. CHA IN/CHB IN - Input with Cannon® XLR connectors for the two channels and outputs to set up the loop through.
- 10. Mode - Operating mode selection switch: stereo-parallel-bridge.
- 11. CHA OUT/CHB OUT - Outputs with Neutrik® SpeakON connectors and screw terminals.
- 12. Power Input – IEC 3-pin power supply connector.
- 13. Earth - Ground lift switch that allows connection-disconnection of electrical earth to/from mechanical earth.
- 14. Ventilation grille.

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