Panasonic

WP-1000 SERIES Professional Power Amplifiers





WP-1000 Series Power Amplifiers, The Foundation of a Great Sound System.



From the clean, uncluttered appearance and simple operation, to their uncompromising reliability and professional performance, RAMSA's WP-1000 Series Power Amplifiers are the ideal foundation of a great sound system.

Simple Sophistication

Behind their sleek, modern front panels. RAMSA's WP-1200 and WP-1400 hide sophisticated circuit design and legendary RAMSA quality.

Class H Circuit Design

Unlike conventional amplifiers, which use only a single output-stage power supply voltage. RAMSA's WP-1200 and WP-1400 use a high-

technolgy, dual-voltage supply in a "Class H" circuit configuration. RAMSA's Class H circuitry continuously evaluates the amplifier's input signal. When the input signal is low, the Class H circuitry swiches in the amplifier's lower-level power supply voltage helping the amplifier run cooler and more efficiently. When a higherlevel input signal appears, the Class H circuitry instantaneously switches in the amplifier's higher-voltage power supply. This higher-voltage power supply enables the amplifier's maximum output power and helps minimize distortion.

Cooling System

 $(400W+400W/4\Omega)$

To cool the WP-1200 and WP-1400 Panasonic engineers installed the amplifiers' output transistors in a windtunnel style heat sink. From the filterless air inlets to the outlets efficient air flow helps maintain a constant low case temperature, regardless of output level. The amplifers also assure stable temperature even when stack mounted. And they installed a quiet, longlife fan to pull cool air from the front of the amplifier through the windtunnel and vent it out the rear. A servo control system monitors heatsink temperature and automatically varies the fan speed to keep the amplifier at a low operating temperature while minimizing fan noise and maximizing fan lifetime.

Controls and Connectors

Input level control (A)

The features include balanced XLR and TRS phone jack inputs. "5-way binding post" (dual banana) outputs,

stereo or mono-bridge operation, rearpanel level controls and "Peak" and "Protect" LED indicators. **Designed for Reliability**

RAMSA products have a reputation for quality and reliability. For the WP-1000 Series, Panasonic engineers combined Class H circuitry and servocontrolled cooling fans with conservative output stage "safe operating area", a clean and simple layout easy repairs and overall attention to highquality design and construction.

MP = 1200 (200W+200W/4Ω)

Professional Performance

Sophisticated features and uncompromising reliability are an appropriate foundation for great listening performance and impressive written specifications.

The WP-1000 Series gains this kind of performance from its low negative feedback, its low-distortion circuit design and its fast Class H switching

To protect the amplifier against turn-on/turn-off transients, Panasonic engineers added muting system. To protect the loudspeaker load against DC voltage generated at the output terminals, they included an intelligent, high-speed "crowbar" circuit.

To further improve its real-world performance the WP-1000 Series includes balanced "instrumentation" quality inputs.

Competitive Price

Sophisticated features, high reliability and great performance might command a premium price. But RAMSA's WP-1000 Series are competitively priced allowing them to be used in both high-performance and budgetconscious system designs.



WP-1400



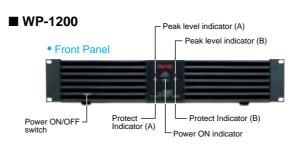
Conventional Thermal distribution

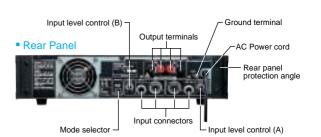
Quality Engineering

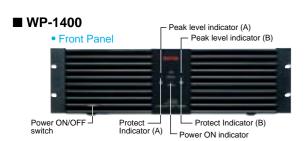
The WP-1000series are all CE approved products.



Input connectors







Specifications

WP-1400

Rated Power Output: $240W+240W/8\Omega$, 20Hz to 20kHz Less than 0.3% THD

 $400W + 400W / 4\Omega,\,40 \text{Hz}$ to 20 kHz Less than 0.3% THD

Bridged Output: 800W/8Ω 20Hz to 20kHz

Frequency Response: THD 4Ω Load: 20Hz to 20kHz +0, -0.5dB at 4Ω 1W output

Less than 0.3%, 40Hz to 20kHz

Less than 0.1%, 1kHz IM Distortion:

(SMPTE,CCIF,DIM 100)

Less than 0.3% Greater than 60dB at 20kHz 30.3dB at 1kHz Channel Separation:

Voltage Gain:

Input Sensitivity: +4dBu at Rated output/4Ω

Input Impedance:

Input CMRR; Greater than 40dB at 1kHz **Damping Factor:** Greater than 100 at 1kHz 8Ω Load SN Ratio (DIN): Greater than 100dB below 8Ω Rated

Source Voltage/Frequency: 220V/240V AC, 50Hz

Front Panel Facilities

Power Switch: Push Type Switch Power Indicator: LED Red LED Red × 2 Peak Indicator: Protection Indicator: LED Amber × 2

Rear Panel Facilities

Input Sensitivity Adjuster: Rotary Potentiometer **Input Connectors:** Female XLR Half Lock Type

Phone TRS 1/4" 5-Way Binding Posts **Speaker Output Terminals:** Stereo/Bridged Mono Selector: Recessed Slide Switch

Dimensions: 480mm (W) \times 132mm (H) \times 393mm (D) (excluding feet)

Weight: 17.4kg

WP-1200

Rated Power Output: $120W+120W/8\Omega$, 20Hz to 20kHz Less than 0.3% THD

 $200W + 200W / 4\Omega,\,40 \text{Hz}$ to 20 kHz Less than $0.3\%\,\,\text{THD}$

 $400\text{W}/8\Omega$ 20Hz to 20kHz **Bridget Output:**

Frequency Response: THD 4Ω Load: 20Hz to 20kHz+0dB, -0.5dB at 4Ω 1W output

Less than 0.3%, 40Hz to 20kHz Less than 0.1%, 1kHz

IM Distortion:

(SMPTE,CCIF,DIM 100) Less than 0.3%

Greater than 60dB at 20kHz 27.2dB at 1kHz **Channel Separation:**

Voltage Gain:

Input Sensitivity: +4dBu at Rated output/4Ω

Input Impedance:

Input CMRR; Greater than 40dB at 1kHz **Damping Factor:** Greater than 100 at 1kHz 8Ω Load SN Ratio (DIN): Greater than 100dB below 8Ω Rated

Source Voltage/Frequency: 220V/240V AC, 50Hz

Front Panel Facilities

Power Switch: Push Type Switch Power Indicator: LED Red LED Red × 2 Peak Indicator: Protection Indicator: LED Amber × 2

Rear Panel Facilities

Input Sensitivity Adjuster: Rotary Potentiometer **Input Connectors:** Female XLR Half Lock Type

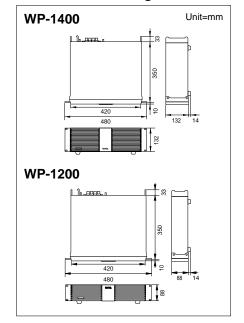
Phone TRS 1/4"

Speaker Output Terminals: 5-Way Binding Posts Stereo/Bridged Mono Selector: Rececced Slide Switch

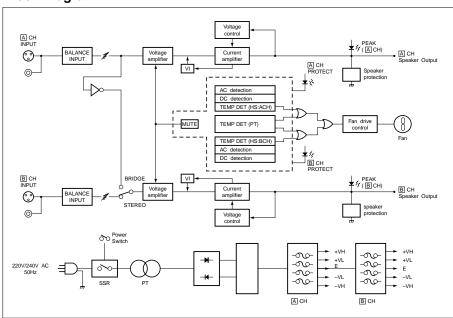
Dimensions: 480mm (W) \times 88mm (H) \times 393mm (D) (excluding feet)

Weight: 11.8kg

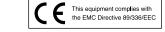
Dimensional Drawings



Block Diagram



- Weights and dimensions are approximate. Specifications are subject to change without notice.
- These products may be subject to export control regulations.



DISTRIBUTED BY:

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