Section Public Address / Voice Evacuation

Category Amplifiers

Range AW5600 / PA8500-VES System

Code AW5624

Certificate

EN 54-16: 2008
n. **0068-CPD-081/2011**

Description

240W Booster

The **AW5624** booster has an RJ45 input for connection to **B711-G** pre-amplified microphone bases simply by means of SFTP CAT.5E shielded cables. There is a special balanced input (TEL/EMERG) with a transformer and automatic activation of precedence (VOX) on the rear panel. Controls for adjusting the level and the activation threshold are present on the rear panel. This input can be used for connecting the appropriate audio output of a telephone switchboard.

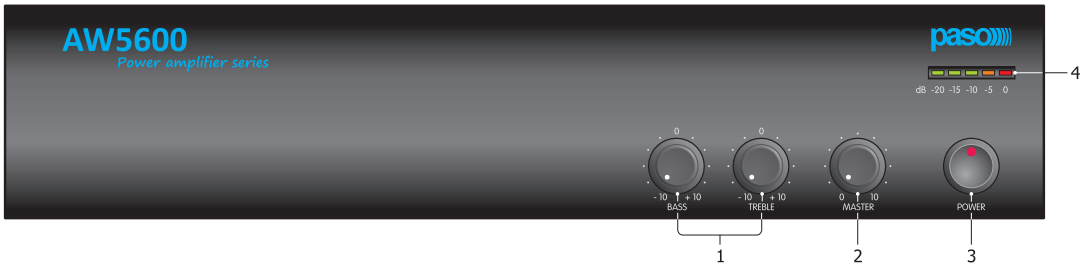
This equipment has a large number of devices for protection against overloads and short circuits (an output current peak-limiting circuit, a thermal circuit-breaker inside the power transformer, a resettable thermal circuit-breaker in contact with the power-transistor heat sink, mains fuses). In addition, each unit has a cooling fan, with automatic control of the speed depending on the temperatures of the heat sinks to which the power devices are applied.

Note: Each amplifier of the AW5600 range has an electronically balanced line input/output with a double XLR socket, one female socket and one male socket to facilitate connection of a number of boosters in cascade fashion. To connect a source of sound directly, it is possible to use a second unbalanced input by means of a double RCA socket for using standard stereo cables.

Main features

- Balanced line input/output (XLR-F and XLR-M sockets, with adjustable sensitivity)
- Unbalanced line input (double RCA socket)
- B711-G microphone station input (RJ45 socket)
- Telephone/emergency audio input for priority calls with adjustable threshold and sensitivity
- Front panel overall volume control and treble and bass controls
- Rear-panel selector switch for enabling/disabling front-panel tone and volume controls
- Constant voltage (50/70/100 V) or 8Ω impedance loudspeaker line output
- LED-type Vu meter for clear and immediate monitoring of output power
- Contacts for activating precedence on line input
- Alerting signal (chime) with level control
- Selectable 230/115 Vac and 24 Vdc mains power supply

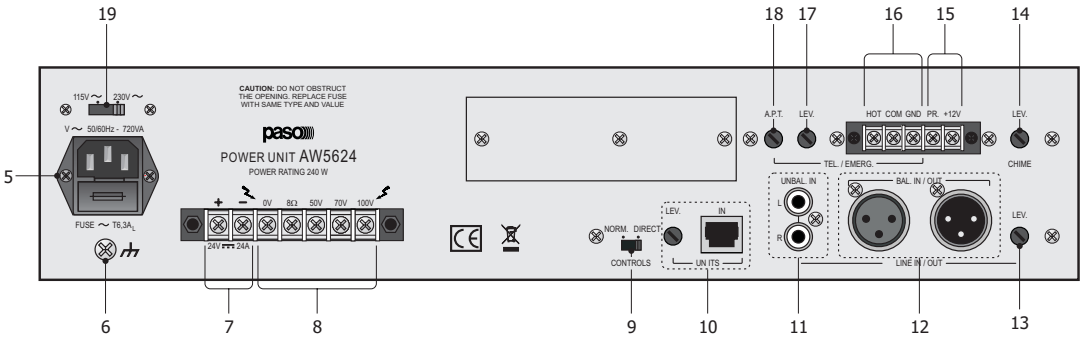
References



1. Tone controls.
2. General volume control.
3. Mains switch.
4. Output level indicator.

Rev. 1.1

References



5. Mains plug with built-in fuse.
6. Frame connection.
7. Terminal strip for external DC power supply.
8. Terminal strip for loudspeaker output.
9. NORMAL/DIRECT switch.
10. Microphone stations input and level control.
11. Unbalanced line input.
12. Balanced line input/output.
13. Line inputs level control.
14. Level control of the warning signal.
15. Precedence connections.
16. Emergency input from PABX.
17. Telephone input level adjustment.
18. Adjustment of the threshold for activating telephone precedence.
19. Mains voltage selector switch.

Technical data

Rated output power	240 W
Constant voltage outputs	50 - 70 - 100 V
Low impedance outputs	8 Ω
Distortion at rated power	<1%
Tone controls	
Bass tones @100 Hz / Treble tones @10 kHz	± 10 dB / ± 10 dB
Line input	
Sensitivity/impedance	300 mV / 60 kΩ
S/N ratio	> 77 dB
Frequency response	30 ÷ 20.000 Hz
IN UNITS input	
Sensitivity	1250 mV
S/N ratio	> 78 dB
Frequency response	30 ÷ 20.000 Hz
Telephone input	
Sensitivity/impedance	120 mV / 6 kΩ
S/N ratio	> 75 dB
Frequency response	230 ÷ 13.000 Hz
Operating conditions	
Mains power supply 230V ±10% 50/60 Hz	P=535W ; A=610 VA
Mains power supply 115V ±10% 50/60 Hz	P=490W ; A=560 VA
External DC power supply	24 V / 13,2 A (0,2 A @ POUT=0 W)
Dimensions (W x H x D)	432 x 88 x 272 mm
Weight	10,5 kg