PV2015 PV2020 PV2030

Dual-Channel Digital Power Amplifier (1U)

Description

The PV2015/PV2020/PV2030 series is a 1U dual-channel digital power amplifier range engineered to provide flexible power options for small to medium-scale sound reinforcement. With a compact chassis and multiple operating modes including stereo, parallel, and bridge, the series adapts easily to different system configurations. It offers adjustable input sensitivity and robust connectivity through XLR and SPEAKON interfaces, ensuring smooth integration with professional audio setups. Enhanced by reliable protection circuitry and independent channel control, the series delivers clear, stable performance for speech and general sound applications.

Features

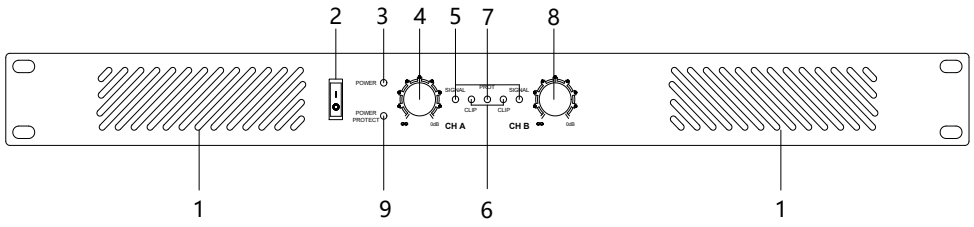
- Dual-channel stereo professional power amplifier.
- Brand-new appearance design with an extremely compact 19-inch chassis, only 1U high (44 mm), suitable for standard rack installation.
- A range of small and medium-power amplifier options to meet different requirements.
- Adjustable input sensitivity: 0.775 V, 1 V, 1.44 V.
- Three selectable output modes: dual-channel, mono, and BTL bridge, with an output mode switch.
- Independent volume control for each channel.
- Minimum load impedance: 4Ω in stereo mode, 8Ω in BTL mode.
- Equipped with XLR signal input interfaces for flexible and convenient use.
- Three commonly used professional SPEAKON speaker connectors for amplifier output.
- Protection and alarm functions including short-circuit protection, DC protection, and power on/off protection.
- LED indicators for each channel showing operating status, designed for low noise.
- Suitable for speech transmission and sound reinforcement in various applications.

Specifications

Model	PV2015	PV2020	PV2030
Rated Output (Dual Channel, 8Ω)	2*150W	2*200W	2*300W
Rated Output (Dual Channel, 4Ω)	2*225W	2*300W	2*450W
Rated Output (Bridged Mode, 8Ω)	450W	600W	900W
Output Mode	Stereo, Parallel, Bridge		
Signal-to-Noise Ratio	≥95dB (A-weighted)		
Input Sensitivity	0.775V/1V/1.44V		
Frequency Response	20-20KHz (±2dB)		
Distortion (Normal Operating	≤0.3%		
Power Supply Range	AC220-230V 50/60Hz		
Protection	Over-current, over-temperature, short-circuit		
Net Weight	3.8kg	3.8kg	4.2kg
Product Dimensions	483×240×44mm		
Package Dimensions	550×375×120mm		

Front / Rear Panel

Front Panel

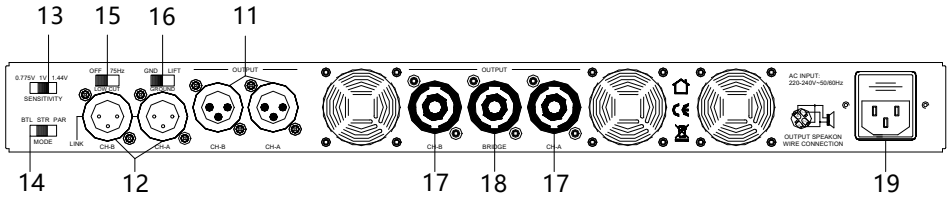


1. Heat Dissipation Vent
2. Power Switch
3. POWER: Power indicator, power indicator for channel A and channel B.
4. Channel A Volume Control Knob (Input Attenuation)
5. SIGNAL: Signal indicator, amplifier output indication. Lights up when the amplifier has signal output.
6. CLIP: Clipping indicator. Lights up when the amplifier is clipping. Reduce the gain to avoid prolonged signal clipping and protect the amplifier and connected speakers.
7. PROT Audio Protection LED: Lights up when the speakers are disconnected from the amplifier. This may occur in the following situations:

- ◆ During the first few seconds after powering on the amplifier.
- ◆ When the power stage temperature is too high.
- ◆ In the event of a fault: DC protection, overload, short circuit, etc.
- ◆ Briefly lights up when powering off the amplifier.

8. Channel B Volume Control Knob (Input Attenuation)
9. POWER PROTECT LED: Lights up for 3-4 seconds after powering on the amplifier. This is normal. During operation, it lights up if a power fault occurs.

Rear Panel



11. XLR Input: Connect these balanced inputs to balanced or unbalanced line-level audio sources (e.g., DJ mixer):
Balanced source: Use high-quality XLR-to-XLR balanced audio cables.
XLR connector pinout: PIN 1: GND, PIN 2: Positive (+), PIN 3: Negative (–).
Unbalanced source: Use high-quality XLR-to-RCA audio cables.
12. Balanced XLR Output: Can be used to send the signal to the next amplifier. Pinout: PIN 1: Signal Ground, PIN 2: Signal (+), PIN 3: Signal (–).
13. Input Sensitivity Switch: This switch allows precise adjustment of the amplifier's input sensitivity: 0.775V, 1.0V, or 1.44V.
14. Operating Mode Switch: Sets the amplifier's working mode. The most common mode is "Stereo". For higher output power, the amplifier can be set to Bridge mode.
15. Low Cut Filter Switch: Filters out low frequencies below 75Hz. Can be used when connecting to small speakers that cannot handle very low frequencies.
16. Ground Lift Switch: In some cases, ground loops in the system may produce audible hum. Set the ground lift switch to "Lift" to break the amplifier's chassis ground and the ground of other components, eliminating the hum.
17. L+R SPEAKON Output: Use these SPEAKON connectors to connect speaker cabinets in stereo or mono mode. Wiring:

- POS (+) = Speakon PIN 1+ and PIN 2+
- NEG (–) = Speakon PIN 1– and PIN 2–

18. BRIDGE SPEAKON Output: Use this SPEAKON connector to connect speaker cabinets in bridge mode. For details, refer to points 3 and 12. Wiring:

- POS (+) = Speakon PIN 1+ and PIN 2+
- NEG (–) = Speakon PIN 1– and PIN 2–

19. Power Input: Connect the amplifier to the power supply using the provided power cord. This interface includes a 20mm glass fuse. When replacing a blown fuse, always use a fuse of the exact same rating (fuse specifications are indicated on the rear panel next to the power input).