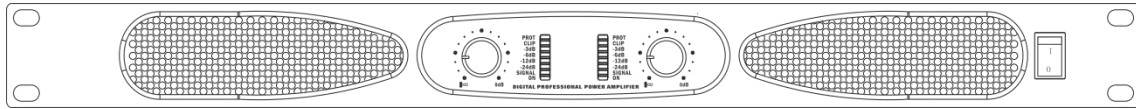


MP2515 MP2530

Professional Class-D Power Amplifier



Description

The series professional power amplifiers represent a new milestone in Class D amplification, featuring advanced Class D amplifier modules and highly efficient SMPS power modules. This combination provides this series with exceptional efficiency and reliability, as well as an impressive power density, delivering unprecedented power within a standard 1U chassis space.

Features

- Compact and lightweight 1U standard chassis design.
- Class D amplifier module with fixed switching frequency and soft-switching LLC resonant power supply module.
- Active Power Factor Correction (PFC) technology, ensuring stable operation across the full voltage range (90-264V).
- High-efficiency speaker back-EMF absorption system, unique peak limiter, and ripple elimination network.
- Temperature-controlled variable-speed fan with front-to-rear airflow.
- Rear panel connection mode selection (stereo/parallel/bridge), with input sensitivity switch options (0.775V/1V/32dB).
- Comprehensive circuit protection, including soft start, DC, subsonic, high-frequency, overheat, short circuit, and power-on/off muting.
- Powerful and rich low frequencies with deep extension, transparent, clear, and pleasant mid-high frequencies.
- Integrated amplifier and power modules, with over 85% of components processed through mechanical automation, ensuring product consistency.
- Suitable for mobile performances, portable sound reinforcement, KTV, bars, concert halls, stadiums, and arenas.

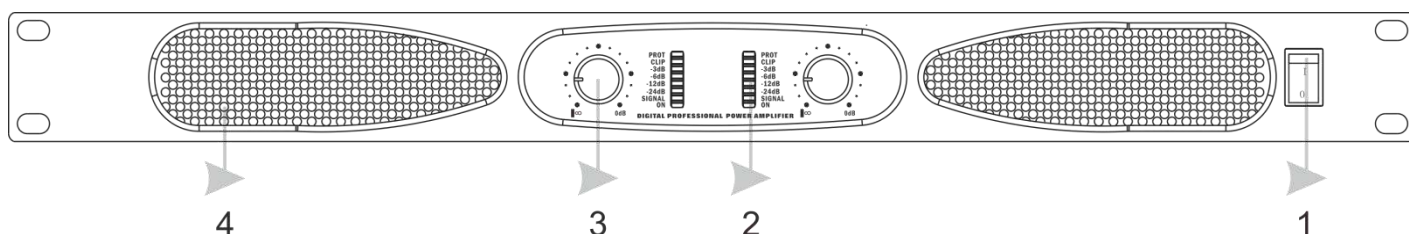
Specifications

Model	MP2515	MP2530
Rated Power	2×450W (8Ω)	2×1000W (8Ω)
Input Impedance	Balanced/Unbalanced >20kΩ/>10kΩ	
Total Harmonic Distortion	≤0.05%	
Frequency Response	20Hz-20kHz (±0.5dB)	
Signal-to-Noise Ratio	>110dB	
Damping Factor	≥700	

Slew Rate	> 30V/us
Input Sensitivity	0.775V/1V/32dB
Minimum Load Impedance	≥2Ω
Airflow Path	from front to back
Protection Function	Soft Start, VHF, DC, Short Circuit, Overload, Peak/Distortion Limiting, Overheat.

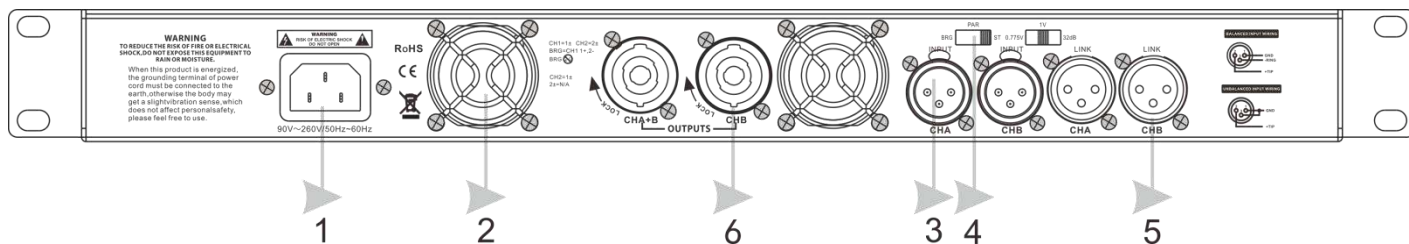
Front / Rear Panel

Front Panel



1. Power Switch: 1 for ON, 0 for OFF.
2. Status Indicator LEDs: ON indicates normal operation for the channel; -3dB indicates the output signal level is at -3dB from the maximum value; CLIP indicates the limiter circuit is active; PROT indicates any protection circuit is engaged; -24dB shows the output is at -24dB from full power (and so on).
3. Volume Potentiometer: Rotate left to decrease volume, right to increase. In stereo mode, CH1 and CH2 volume are controlled independently. In bridge/parallel mode, CH1 controls the volume attenuation for both channels while CH2 control is disabled. It is recommended to keep the volume at maximum (0dB) during operation.
4. Dust-Filtered Air Intake: Ensure this vent remains unobstructed. The internal dust filter should be cleaned approximately every six months.

Rear Panel



1. Power Socket with Fuse Holder.
2. Fan Cooling Vent.
3. Signal Input XLR Connector: Balanced input, with pin 1 for ground, pin 2 for positive signal, and pin 3 for negative signal.
4. Independent and Bridge/Parallel Toggle Switch: ST represents stereo mode, where each channel operates independently; BRG and PAR represent bridge and parallel modes.
5. Signal Pre-Output.
6. Signal Output Terminal.

Note: In dual-channel mode, the system can operate at 4-16Ω. In bridge mode, it can operate at 8-16Ω. It is not recommended to use bridge mode at 4Ω, as this effectively means each channel is driving 2Ω, which may shorten the amplifier's lifespan or cause unnecessary malfunctions.