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PD Series

Professional Four-channel Power Amplifier

The PD series is a professional four-channel power amplifier with high technology, premium sound performance and comprehensive protection system. It is a truly high-quality professional power amplifier.

The PD series power amplifier includes four models (PD400, PD600, PD800, PD1000), power ranging 400~1000W (8Ω RMS stereo), suitable for professional entertainers with limited budgets but demanding the best performance. It is widely used in bars, nightclubs, multi function halls, museums, religious places, speeches, weddings and other fixed installation and mobile performance venues.



FEATURES

■ Comprehensive Protection System

Advanced Linear Limiter Protection Circuit

Reduce the gain appropriately while maintaining sound quality integrity, protecting the speaker while ensuring the audience experience is not affected, avoiding distortion or downtime.

Soft-start Protection to Prevent Current Impact

DC Protection to Effectively Protect the Speakers

When the output terminal of the power amplifier detects the DC voltage, the protection circuit will cut off the output to protect the speaker from damage, and in the meantime the protection light of the channel will light up.

Short-circuit Protection to Effectively Protect the Power Amplifier

If the output is short-circuited (for example, a defective speaker or speaker cables are crossed), the short-circuit protection circuit will automatically protect the power amplifier. The power amplifier will not resume work until the short-circuit problem is solved.

Thermal Protection

When the heatsink or transformer has abnormally high temperature, it will trigger the internal thermal protection of the power amplifier. The protected channel protection light will be on and the output of the channel will be turned off. Only when back to the normal temperature range, the protection channel will deliver output.

■ Beautiful, dynamic sound

Clear high frequency with rich tone

Warm and round mid frequency, full of vocal charm

Steady and powerful bass

■ Class H system

The Class H system makes the power amplifier realize the conversion of low power track to high power track in microseconds, ensuring accurate output power without excessive loss.

■ Unique VL™ crossover circuit design

VL™ crossover circuit, designed as 24dB/oct, is connected with filter, which not only provides a good drive and feedback effect, but also ensures low total power consumption. The crossover point is 6dB, no need for phase switch.,It is a good choice for subwoofer and small-sized sound system.

■ Efficient cooling system

The PD series power amplifier uses a stepless fan system, which guides air across the amplifier and draws cold air successively through the power transformer, fan and radiator. It is equipped with four fans to keep the transformer in a cool state.

■ Long-term stability

In order to ensure product quality, PD series amplifiers components are carefully selected by professional engineers and senior purchasers. All components have undergone rigorous testing before assembly. Each power amplifier is tested thoroughly by the precise audio test equipments before shipment. The PD series power amplifiers can operate continuously with long-term stability.

■ High cost performance

The PD series power amplifiers have high cost performance that is difficult to be surpassed by other suppliers. Welcome bulk purchase, we will provide support for all customers with the best quality.

PD400



Output power (1kHz, THD+N =1%)	4x400W @8Ω stereo 4x600W @4Ω stereo 4x300W @2Ω stereo 2x1200W @8Ω bridge 2x600W @4Ω bridge
A-Guard Protection System	DC protection/Short circuit protection/ Smart overheat management/Overheat protection/Output overload protection / Soft startup protection/Limiter protection
Working Mode	Stereo/Parallel/Bridge
Crossover(High Pass/Low Pass)	120Hz,-3dB
Input Connectors	Male XLR & Female XLR
Output Connectors	Speakon 4Pin
Input Impedance	≥20kΩ(Balanced),≥10kΩ(Unbalanced)
Maximum Input Voltage	≥20dBu
Sensitivity	0.775V / 32dB / 26dB
Frequency Response (1W 8Ω stereo)	20Hz-20kHz(±1dB)
Crosstalk (1kHz, Rated power 8 Ω A weighted)	≥60dB
S/N Ratio(Rated power 8Ω, A weighted)	≥100dB
Damping Factor (1kHz&8Ω)	≥400
Intermodulation Distortion (60Hz:7kHz=4:1,half power)	≤0.1%
THD+N (1kHz,8Ω half power A weighted)	≤0.05%
Output Circuitry	Class AB
Power Supply	100-130V~/220-240V~(±10%,50/60Hz)
Power Consumption (1/8 output power)	780W
Rack Space	2U
Cooling	Back to front venting,mandatory cooling
Dimension (W×H×D)	483×88×384mm
Net Weight	20.0kg



PD600



Output power (1kHz, THD+N =1%)	4x600W @8Ω stereo 4x900W @4Ω stereo 4x400W @2Ω stereo 2x1800W @8Ω bridge 2x800W @4Ω bridge
A-Guard Protection System	DC protection/Short circuit protection/ Smart overheat management/Overheat protection/Output overload protection / Soft startup protection/Limiter protection
Working Mode	Stereo/Parallel/Bridge
Crossover(High Pass/Low Pass)	120Hz,-3dB
Input Connectors	Male XLR & Female XLR
Output Connectors	Speakon 4Pin
Input Impedance	≥20kΩ(Balanced),≥10kΩ(Unbalanced)
Maximum Input Voltage	≥20dBu
Sensitivity	0.775V / 36dB / 32dB
Frequency Response (1W 8Ω stereo)	20Hz-20kHz(±1dB)
Crosstalk (1kHz, Rated power 8 Ω A weighted)	≥60dB
S/N Ratio(Rated power 8Ω, A weighted)	≥100dB
Damping Factor (1kHz&8Ω)	≥400
Intermodulation Distortion (60Hz:7kHz=4:1,half power)	≤0.1%
THD+N (1kHz,8Ω half power A weighted)	≤0.05%
Output Circuitry	Class H
Power Supply	100-130V~/220-240V~(±10%,50/60Hz)
Power Consumption (1/8 output power)	1130W
Rack Space	2U
Cooling	Back to front venting,mandatory cooling
Dimension (W×H×D)	483×88×457mm
Net Weight	25.0kg



PD800



Output power (1kHz, THD+N =1%)	4x800W @8Ω stereo 4x1200W @4Ω stereo 4x700W @2Ω stereo 2x2400W @8Ω bridge 2x1400W @4Ω bridge
A-Guard Protection System	DC protection/Short circuit protection/ Smart overheat management/Overheat protection/Output overload protection / Soft startup protection/Limiter protection
Working Mode	Stereo/Parallel/Bridge
Crossover(High Pass/Low Pass)	120Hz,-3dB
Input Connectors	Male XLR & Female XLR
Output Connectors	Speakon 4Pin
Input Impedance	≥20kΩ(Balanced),≥10kΩ(Unbalanced)
Maximum Input Voltage	≥20dBu
Sensitivity	0.775V / 36dB / 32dB
Frequency Response (1W 8Ω stereo)	20Hz-20kHz(±1dB)
Crosstalk (1kHz, Rated power 8 Ω A weighted)	≥60dB
S/N Ratio(Rated power 8Ω, A weighted)	≥100dB
Damping Factor (1kHz&8Ω)	≥400
Intermodulation Distortion (60Hz:7kHz=4:1,half power)	≤0.1%
THD+N (1kHz,8Ω half power A weighted)	≤0.05%
Output Circuitry	Class H
Power Supply	100-130V~/220-240V~(±10%,50/60Hz)
Power Consumption (1/8 output power)	1450W
Rack Space	2U
Cooling	Back to front venting,mandatory cooling
Dimension (W×H×D)	483×88×457mm
Net Weight	26.0kg



PD1000



Output power (1kHz, THD+N =1%)	4x1000W @8Ω stereo 4x1500W @4Ω stereo 4x1000W @2Ω stereo 2x3000W @8Ω bridge 2x2000W @4Ω bridge
A-Guard Protection System	DC protection/Short circuit protection/ Smart overheat management/Overheat protection/Output overload protection / Soft startup protection/Limiter protection
Working Mode	Stereo/Parallel/Bridge
Crossover(High Pass/Low Pass)	120Hz,-3dB
Input Connectors	Male XLR & Female XLR
Output Connectors	Speakon 4Pin
Input Impedance	≥20kΩ(Balanced),≥10kΩ(Unbalanced)
Maximum Input Voltage	≥20dBu
Sensitivity	0.775V / 36dB / 32dB
Frequency Response (1W 8Ω stereo)	20Hz-20kHz(±1dB)
Crosstalk (1kHz, Rated power 8 Ω A weighted)	≥60dB
S/N Ratio(Rated power 8Ω, A weighted)	≥100dB
Damping Factor (1kHz&8Ω)	≥400
Intermodulation Distortion (60Hz:7kHz=4:1,half power)	≤0.1%
THD+N (1kHz,8Ω half power A weighted)	≤0.05%
Output Circuitry	Class H
Power Supply	100-130V~/220-240V~(±10%,50/60Hz)
Power Consumption (1/8 output power)	1680W
Rack Space	2U
Cooling	Back to front venting,mandatory cooling
Dimension (W×H×D)	483×88×457mm
Net Weight	27.0kg



■ PD Series Amplifier Specifications

SPECIFICATIONS		PD400	PD600	PD800	PD1000
Output power (1kHz, THD+N =1%)	8Ω stereo	4x400W	4x600W	4x800W	4x1000W
	4Ω stereo	4x600W	4x900W	4x1200W	4x1500W
	2Ω stereo	4x300W	4x400W	4x700W	4x1000W
	8Ω bridge	2x1200W	2x1800W	2x2400W	2x3000W
	4Ω bridge	2x600W	2x800W	2x1400W	2x2000W
A-Guard Protection System	DC protection			√	
	Short circuit protection			√	
	Smart overheat management			√	
	Overheat protection			√	
	Output overload protection			√	
	Soft startup protection			√	
	Limiter protection			√	
Working mode		Stereo/Parallel/Bridge			
Crossover (High Pass/Low Pass)		120Hz,-3dB			
Connectors	Input	Male XLR & Female XLR			
	Output	Speakon 4Pin			
Input Impedance	Balanced	≥20kΩ			
	Unbalanced	≥10kΩ			
Maximum input voltage		≥20dBu			
Sensitivity		0.775V / 32dB / 26dB	0.775V / 36dB / 32dB		
Frequency Response(1W 8Ω stereo)		20Hz-20kHz(±1dB)			
Crosstalk(1kHz, Rated power 8ΩA weighted)		≥60dB			
S/N Ratio(Rated power 8Ω, A weighted)		≥100dB			
Damping Factor(1kHz & 8Ω)		≥400			
Intermodulation Distortion (60Hz:7kHz=4:1,half power)		≤0.1%			
THD+N(1kHz,8Ω half power A weighted)		≤0.05%			
Output Circuitry		Class AB	Class H		
Power Supply		100-130V~/220-240V~(±10%,50/60Hz)			
Power consumption(1/8 output power)		780W	1130W	1450W	1680W
Rack Space		2U			
Cooling		Back to front venting,mandatory cooling			
Dimensions(W×H×D)		483×88×384mm	483×88×457mm		
Net Weight		20.0kg	25.0kg	26.0kg	27.0kg