

**AUDIOCENTER**

Dynamic Audio Solutions

[www.audiocenter.net](http://www.audiocenter.net)

*Together we are stronger*



## **PRO Series Power Amplifier**

**Mid-high level amplifier with remarkable performance and reliability we are famous for.**

The four models within this series (PRO4.0, PRO7.0, PRO9.0, PRO18.0) offer a range from 400 watts to 1700 watts at 8Ω stereo. Each channel works at 2Ω to satisfy all requirements.

PRO series adopts Audiocenter latest Class H<sup>+</sup> circuitry to eliminate the Class H cross switching distortion.

PRO series has very clear and clean sound and high damping factor. This makes PRO series suitable for any kind of application, from high power loudspeakers to critical monitoring where very high requirements are mandatory. It can be widely used in fixed installation and touring performance such as bar, nightclub, multi-functional hall, museum, religious venue, commerce site, lecture hall, wedding ceremony, etc.



## FEATURES

### ■ A-Guard Protection System

A-Guard is Audiocenter comprehensive protection system which includes optimized limiter circuit. Unlike other solutions which depend on separate circuits to address different problems, A-Guard was developed as centralized solution where all protection requirements work together in perfect harmony. A-Guard is only applied when it's necessary to protect the amplifier. This is the reason why PRO amplifiers are able to sustain full power output even under complex capacitive loads.

### ■ Smart Overheat Management

The smart overheat management of PRO series adopts unique circuitry to monitor the amplifier's temperature in real time. When the safe operation of the amplifier is compromised, the output power is reduced but not shut down, which ensures the system can work normally in high temperature environment.

### ■ Class H<sup>+</sup> Circuit Design Eliminates Cross Switching Distortion

PRO series adopts Audiocenter latest Class H<sup>+</sup> circuit to eliminate the Class H cross switching distortion. The result is the same low distortion as Class AB. All PRO amplifiers have less than 0.05%THD at 16KHz and the sound is so clean and natural.

## CORE COMPONENTS



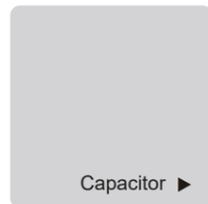
Switch Circuit Breaker



Toroidal Transformer



Customized big Capacitor



Capacitor



XLR and Speaker connector



Transistor



## PRO4.0



Output power (1kHz, THD+N =1%)	2×400W @8Ω stereo 2×600W @4Ω stereo 2×800W @2Ω stereo 1200W @8Ω bridge 1600W @4Ω bridge
A-Guard Protection System	DC protection / Short circuit protection / Smart overheat management / Overheat protection / Input overload protection / Output overload protection / Soft startup protection / Limiter protection
Working mode	Stereo/Parallel/Bridge
High Pass	/
Low Pass	/
Low Cut	/
LOW FREQ ENHANCED	/
Input Connectors	Male XLR & Female XLR
Output Connectors	Speakon 4Pin
Input Impedance	Balanced ≥20kΩ / Unbalanced ≥10kΩ
Maximum input voltage	≥20dBu
Sensitivity	0.775V / 32dB / 26dB
Frequency Response (1W 8Ω stereo)	20Hz-20kHz(±0.5dB)
Crosstalk(1kHz, Rated power 8Ω,A weighted)	≥65dB
S/N Ratio (Rated power 8Ω, A weighted)	≥108dB
Damping Factor (1kHz&8Ω)	≥500
Intermodulation Distortion (60Hz:7kHz=4:1,half power)	≤0.05%
THD+N (1kHz,8Ω half power,A weighted)	≤0.05%
Output Circuitry	Class H <sup>+</sup>
Power Supply	110V~/230V~(±10%,50/60Hz)
Power Consumption (1/8 output power 4Ω)	415W
Rack Space	2U
Cooling	Back to front venting, mandatory cooling
Dimension (W×H×D)	483×88×451mm
Net Weight	18.0kg



## PRO7.0



Output power (1kHz, THD+N =1%)	2×700W @8Ω stereo 2×1100W @4Ω stereo 2×1400W @2Ω stereo 2200W @8Ω bridge 2800W @4Ω bridge
A-Guard Protection System	DC protection / Short circuit protection / Smart overheat management / Overheat protection / Input overload protection / Output overload protection / Soft startup protection / Limiter protection
Working mode	Stereo/Parallel/Bridge
High Pass	/
Low Pass	/
Low Cut	/
LOW FREQ ENHANCED	/
Input Connectors	Male XLR & Female XLR
Output Connectors	Speakon 4Pin
Input Impedance	Balanced ≥20kΩ / Unbalanced ≥10kΩ
Maximum input voltage	≥20dBu
Sensitivity	0.775V / 32dB / 26dB
Frequency Response (1W 8Ω stereo)	20Hz-20kHz(±0.5dB)
Crosstalk(1kHz, Rated power 8Ω,A weighted)	≥65dB
S/N Ratio (Rated power 8Ω, A weighted)	≥108dB
Damping Factor (1kHz&8Ω)	≥500
Intermodulation Distortion (60Hz:7kHz=4:1,half power)	≤0.05%
THD+N (1kHz,8Ω half power,A weighted)	≤0.05%
Output Circuitry	Class H <sup>+</sup>
Power Supply	110V~/230V~(±10%,50/60Hz)
Power Consumption (1/8 output power 4Ω)	782W
Rack Space	2U
Cooling	Back to front venting, mandatory cooling
Dimension (W×H×D)	483×88×451mm
Net Weight	22.5kg



## PRO9.0



Output power (1kHz, THD+N =1%)	2×1000W @8Ω stereo 2×1500W @4Ω stereo 2×1950W @2Ω stereo 3000W @8Ω bridge 3900W @4Ω bridge
A-Guard Protection System	DC protection / Short circuit protection / Smart overheat management / Overheat protection / Input overload protection / Output overload protection / Soft startup protection / Limiter protection
Working mode	Stereo/Parallel/Bridge
High Pass	160Hz, -3dB
Low Pass	160Hz, -3dB
Low Cut	30Hz
LOW FREQ ENHANCED	100Hz
Input Connectors	Female XLR+TRS
Output Connectors	Speakon 4Pin + binding posts
Input Impedance	Balanced ≥20kΩ / Unbalanced ≥10kΩ
Maximum input voltage	≥20dBu
Sensitivity	0.775V / 36dB / 32dB
Frequency Response (1W 8Ω stereo)	20Hz-20kHz(±0.5dB)
Crosstalk(1kHz, Rated power 8Ω,A weighted)	≥65dB
S/N Ratio (Rated power 8Ω, A weighted)	≥108dB
Damping Factor (1kHz&8Ω)	≥650
Intermodulation Distortion (60Hz:7kHz=4:1,half power)	≤0.05%
THD+N (1kHz,8Ω half power,A weighted)	≤0.05%
Output Circuitry	Class H <sup>+</sup>
Power Supply	110V~230V~(±10%,50/60Hz)
Power Consumption (1/8 output power 4Ω)	1050W
Rack Space	3U
Cooling	Back to front venting, mandatory cooling
Dimension (W×H×D)	483×132×510mm
Net Weight	34.0kg



## PRO18.0



Output power (1kHz, THD+N =1%)	2×1700W @8Ω stereo 2×2500W @4Ω stereo 2×3000W @2Ω stereo 5000W @8Ω bridge 6000W @4Ω bridge
A-Guard Protection System	DC protection / Short circuit protection / Smart overheat management / Overheat protection / Input overload protection / Output overload protection / Soft startup protection / Limiter protection
Working mode	Stereo/Parallel/Bridge
High Pass	160Hz, -3dB
Low Pass	160Hz, -3dB
Low Cut	30Hz
LOW FREQ ENHANCED	100Hz
Input Connectors	Female XLR+TRS
Output Connectors	Speakon 4Pin + binding posts
Input Impedance	Balanced ≥20kΩ / Unbalanced ≥10kΩ
Maximum input voltage	≥20dBu
Sensitivity	0.775V / 36dB / 32dB
Frequency Response (1W 8Ω stereo)	20Hz-20kHz(±0.5dB)
Crosstalk(1kHz, Rated power 8Ω,A weighted)	≥65dB
S/N Ratio (Rated power 8Ω, A weighted)	≥108dB
Damping Factor (1kHz&8Ω)	≥650
Intermodulation Distortion (60Hz:7kHz=4:1,half power)	≤0.05%
THD+N (1kHz,8Ω half power,A weighted)	≤0.05%
Output Circuitry	Class H <sup>+</sup>
Power Supply	110V~230V~(±10%,50/60Hz)
Power Consumption (1/8 output power 4Ω)	1450W
Rack Space	3U
Cooling	Back to front venting, mandatory cooling
Dimension (W×H×D)	483×132×510mm
Net Weight	39.0kg



## PRO Series Amplifier Specifications

SPECIFICATIONS		PRO4.0	PRO7.0	PRO9.0	PRO18.0
Output power (1kHz, THD+N =1%)	8Ω stereo	2×400W	2×700W	2×1000W	2×1700W
	4Ω stereo	2×600W	2×1100W	2×1500W	2×2500W
	2Ω stereo	2×800W	2×1400W	2×1950W	2×3000W
	8Ω bridge	1200W	2200W	3000W	5000W
	4Ω bridge	1600W	2800W	3900W	6000W
A-Guard Protection System		DC protection, Short circuit protection, Smart overheat management, Overheat protection, Input overload protection, Output overload protection, Soft startup protection, Limiter protection			
Working mode		Stereo/Parallel/Bridge			
Crossover	High Pass	/		160Hz, -3dB	
	Low Pass	/		160Hz, -3dB	
	Low Cut	/		30Hz	
LOW FREQ ENHANCED		/		100Hz	
Connectors	Input	Male XLR & Female XLR		Female XLR+TRS	
	Output	Speakon 4Pin		Speakon 4Pin + binding posts	
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(±0.5dB)			
Crosstalk (1kHz, Rated power 8ΩA weighted )		≥65dB			
S/N Ratio(Rated power 8Ω, A weighted)		≥108dB			
Damping Factor(1kHz & 8Ω)		≥500		≥650	
Intermodulation Distortion (60Hz:7kHz=4:1,half power)		≤0.05%			
THD+N (1kHz, 8Ω half power A weighted)		≤0.05%			
Output Circuitry		Class H <sup>+</sup>			
Power Supply		110V~230V~(±10%,50/60Hz)			
Power Consumption (1/8 output power 4Ω )		415W	782W	1050W	1450W
Rack Space		2U		3U	
Cooling		Back to front venting, mandatory cooling			
Dimensions(W×H×D)		483×88×451mm		483×132×510mm	
Net Weight		18.0kg	22.5kg	34.0kg	39.0kg