

[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, PRO12.0) offer a range from 400 watts to 1200 watts at 8 $\Omega$  stereo. Each channel works at 2 $\Omega$  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.

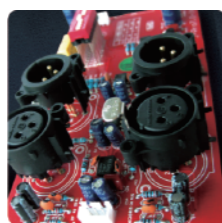
### ■ Class H+ Circuit Design Eliminates Cross Switching Distortion

PRO series adopts Audiocenter latest Class H+ 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



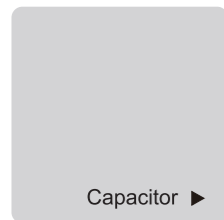
Switch Circuit Breaker



Toroidal Transformer



Customized big Capacitor



Capacitor



XLR and Speaker connector



Transistor



## PRO4.0



<b>Rated Power</b> (20Hz-20KHz, <0.1%THD)	2×400W@8Ωstereo 2×600W@4Ωstereo 2×800W@2Ωstereo 1200W@8Ωbridge 1600W@4Ωbridge
<b>A-Guard Protection System</b>	DC protection / Short circuit protection / Smart overheat management / Overheat protection / Input overload protection / Output overload protection / Soft startup protection / Limiter protection Up to 9V
<b>Frequency Response</b> (1W 8Ω stereo)	20Hz-20KHz(±0.5dB)
<b>Sensitivity</b>	0.775V / 32dB / 26dB
<b>Input Connectors</b> <b>Output Connectors</b>	Male XLR & female XLR 3× Speaker connector
<b>Filter Capacitor Capacity</b>	10000μf / 50V×8
<b>Input Impedance</b>	Balanced 20KΩ / Unbalanced 10KΩ
<b>Crosstalk</b> (20Hz-20KHz, Rated power 8Ω)	≥65dB
<b>S/N Ratio</b> (Rated power 8Ω, A weighted)	≥108dB
<b>Damping Factor</b> (1KHz&8Ω)	≥500
<b>Intermodulation Distortion</b> (20Hz-20KHz, half power)	≤0.05%
<b>Total Harmonic Distortion</b> (20Hz-20KHz, rated power 8Ω)	≤0.05%
<b>Phase Response</b> (1W&8Ω, 20Hz-20KHz)	20Hz+4° 20KHz-12°
<b>Slew Rate</b>	≥45V/μs
<b>Output Circuitry</b>	Class H+
<b>Power Consumption</b> (Dual channel driven 4Ω, 1/ 8RMS / 230V)	1.8A
<b>Rack Space</b>	2U
<b>Cooling</b>	Back to front venting, mandatory cooling
<b>Dimension (W×H×D)</b>	483×88×456mm
<b>Net Weight</b>	18.0Kg

## PRO7.0



<b>Rated Power</b> (20Hz-20KHz, <0.1%THD)	2×700W@8Ωstereo 2×1100W@4Ωstereo 2×1400W@2Ωstereo 2200W@8Ωbridge 2800W@4Ωbridge
<b>A-Guard Protection System</b>	DC protection / Short circuit protection / Smart overheat management / Overheat protection / Input overload protection / Output overload protection / Soft startup protection / Limiter protection Up to 9V
<b>Frequency Response</b> (1W 8Ω stereo)	20Hz-20KHz(±0.5dB)
<b>Sensitivity</b>	0.775V / 36dB / 32dB
<b>Input Connectors</b> <b>Output Connectors</b>	Male XLR & female XLR 3× Speaker connector
<b>Filter Capacitor Capacity</b>	12000μf / 80V×8
<b>Input Impedance</b>	Balanced 20KΩ / Unbalanced 10KΩ
<b>Crosstalk</b> (20Hz-20KHz, Rated power 8Ω)	≥65dB
<b>S/N Ratio</b> (Rated power 8Ω, A weighted)	≥108dB
<b>Damping Factor</b> (1KHz&8Ω)	≥500
<b>Intermodulation Distortion</b> (20Hz-20KHz, half power)	≤0.05%
<b>Total Harmonic Distortion</b> (20Hz-20KHz, rated power 8Ω)	≤0.05%
<b>Phase Response</b> (1W&8Ω, 20Hz-20KHz)	20Hz+4° 20KHz-12°
<b>Slew Rate</b>	≥45V/μs
<b>Output Circuitry</b>	Class H+
<b>Power Consumption</b> (Dual channel driven 4Ω, 1/ 8RMS / 230V)	3.4A
<b>Rack Space</b>	2U
<b>Cooling</b>	Back to front venting, mandatory cooling
<b>Dimension (W×H×D)</b>	483×88×456mm
<b>Net Weight</b>	22.5Kg



## PRO9.0



<b>Rated Power</b> (20Hz-20KHz, <0.1%THD)	2×1000W@8Ωstereo 2×1500W@4Ωstereo 2×1950W@2Ωstereo 3000W@8Ωbridge 3900W@4Ωbridge
<b>A-Guard Protection System</b>	DC protection / Short circuit protection / Smart overheat management / Overheat protection / Input overload protection / Output overload protection / Soft startup protection / Limiter protection Up to 9V
<b>Frequency Response</b> (1W 8Ω stereo)	20Hz-20KHz(±0.5dB)
<b>Sensitivity</b>	0.775V / 36dB / 32dB
<b>Input Connectors</b> <b>Output Connectors</b>	Male XLR & female XLR 3× Speaker connector
<b>Filter Capacitor Capacity</b>	15000µf / 100V×12
<b>Input Impedance</b>	Balanced 20KΩ / Unbalanced 10KΩ
<b>Crosstalk</b> (20Hz-20KHz, Rated power 8Ω)	≥65dB
<b>S/N Ratio</b> (Rated power 8Ω, A weighted)	≥108dB
<b>Damping Factor</b> (1KHz&8Ω)	≥800
<b>Intermodulation Distortion</b> (20Hz-20KHz, half power)	≤0.05%
<b>Total Harmonic Distortion</b> (20Hz-20KHz, rated power 8Ω)	≤0.05%
<b>Phase Response</b> (1W&8Ω, 20Hz-20KHz)	20Hz+4° 20KHz-12°
<b>Slew Rate</b>	≥45V/µs
<b>Output Circuitry</b>	Class H <sup>+</sup>
<b>Power Consumption</b> (Dual channel driven 4Ω, 1/8RMS / 230V)	4.6A
<b>Rack Space</b>	3U
<b>Cooling</b>	Back to front venting, mandatory cooling
<b>Dimension (W×H×D)</b>	483×132×484mm
<b>Net Weight</b>	34.0Kg



## PRO12.0



<b>Rated Power</b> (20Hz-20KHz, <0.1%THD)	2×1200W@8Ωstereo 2×1800W@4Ωstereo 2×2000W@2Ωstereo 3600W@8Ωbridge 4000W@4Ωbridge
<b>A-Guard Protection System</b>	DC protection / Short circuit protection / Smart overheat management / Overheat protection / Input overload protection / Output overload protection / Soft startup protection / Limiter protection Up to 9V
<b>Frequency Response</b> (1W 8Ω stereo)	20Hz-20KHz(±0.5dB)
<b>Sensitivity</b>	0.775V / 36dB / 32dB
<b>Input Connectors</b> <b>Output Connectors</b>	Male XLR & female XLR 3× Speaker connector
<b>Filter Capacitor Capacity</b>	15000µf / 100V×12
<b>Input Impedance</b>	Balanced 20KΩ / Unbalanced 10KΩ
<b>Crosstalk</b> (20Hz-20KHz, Rated power 8Ω)	≥65dB
<b>S/N Ratio</b> (Rated power 8Ω, A weighted)	≥108dB
<b>Damping Factor</b> (1KHz&8Ω)	≥800
<b>Intermodulation Distortion</b> (20Hz-20KHz, half power)	≤0.05%
<b>Total Harmonic Distortion</b> (20Hz-20KHz, rated power 8Ω)	≤0.05%
<b>Phase Response</b> (1W&8Ω, 20Hz-20KHz)	20Hz+4° 20KHz-12°
<b>Slew Rate</b>	≥45V/µs
<b>Output Circuitry</b>	Class H <sup>+</sup>
<b>Power Consumption</b> (Dual channel driven 4Ω, 1/8RMS / 230V)	6.0A
<b>Rack Space</b>	3U
<b>Cooling</b>	Back to front venting, mandatory cooling
<b>Dimension (W×H×D)</b>	483×132×484mm
<b>Net Weight</b>	38.0Kg



## PRO Series Amplifier Specifications

SPECIFICATIONS		PRO4.0	PRO7.0	PRO9.0	PRO12.0
Rated Power (20Hz-20KHz, <0.1%THD)	4Ω bridge	1600W	2800W	3900W	4000W
	8Ω bridge	1200W	2200W	3000W	3600W
	2Ω stereo	2×800W	2×1400W	2×1950W	2×2000W
	4Ω stereo	2×600W	2×1100W	2×1500W	2×1800W
	8Ω stereo	2×400W	2×700W	2×1000W	2×1200W
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	Up to 9V				
Frequency Response(1W 8Ω stereo)		20Hz-20KHz(±0.5dB)			
Sensitivity		0.775V / 32dB / 26dB		0.775V / 36dB / 32dB	
Connectors	Input	Male XLR & Female XLR			
	Output	3× Speaker connector			
Filter Capacitor Capacity		10000µs / 50V×8	12000µs / 80V×8	15000µs / 100V×12	
Input Impedance	Balanced	20KΩ			
	Unbalanced	10KΩ			
Crosstalk(20Hz-20KHz, rated power 8Ω)		≥65dB			
S/N Ratio(Rated power 8Ω, A weighted)		≥108dB			
Damping Factor(1KHz & 8Ω)		≥500		≥800	
Intermodulation Distortion (20Hz-20KHz, half power)		≤0.05%			
Total Harmonic Distortion (20Hz-20KHz, rated power 8Ω)		≤0.05%			
Phase Response(1W & 8Ω, 20Hz-20KHz)		20Hz+4° 20KHz-12°			
Slew Rate		≥45V/µs			
Output Circuitry		Class H <sup>+</sup>			
Power Consumption (Dual channel driven 4Ω, 1/8RMS/230V)		1.8A	3.4A	4.6A	6.0A
Rack Space		2U		3U	
Cooling		Back to front venting, mandatory cooling			
Dimensions(W×H×D)		483×88×456mm		483×132×484mm	
Net Weight		18.0Kg	22.5Kg	34.0Kg	38.0Kg
Technical Support and After-sales Service		Global application support team			