



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 8Ω stereo. Each channel works at 2Ω to satisfy all requirements.

PRO series adopts AudioCenter latest Class H⁺ circuitry to eliminate the Class H cross switching distortion.

With carefully selected components like toroidal transformers, audiophile WIMA capacitors, TOSHIBA transistors, CARLING switch circuit breakers, NEUTRIK[®] connectors and BELDEN wires, etc. 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.

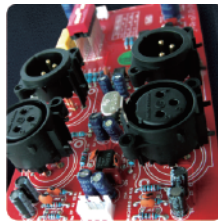
■ Class H⁺ Circuit Design Eliminates Cross Switching Distortion

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



CARLING
Switch Circuit
Breaker



Toroidal
Transformer



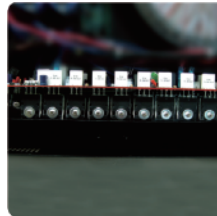
Customized
Audiocenter big
Capacitor



WIMA Capacitor



▲ NEUTRIK®
XLR and Speakon



TOSHIBA
Transistor



PRO4.0



Rated Power (20Hz-20KHz, <0.1%THD)	2×400W@8Ωstereo 2×600W@4Ωstereo 2×800W@2Ωstereo 1200W@8Ωbridge 1600W@4Ωbridge
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
Input Connectors Output Connectors	NEUTRIK® male XLR & female XLR 3×NEUTRIK® Speakon NL 4MP
Filter Capacitor Capacity	10000µf / 50V×8
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
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 ⁺
Power Consumption (Dual channel driven 4Ω, 1/8RMS / 230V)	1.8A
Rack Space	2U
Cooling	Back to front venting, mandatory cooling
Dimension (W×H×D)	483×88×456mm
Net Weight	18.0Kg

PRO7.0



Rated Power (20Hz-20KHz, <0.1%THD)	2×700W@8Ωstereo 2×1100W@4Ωstereo 2×1400W@2Ωstereo 2200W@8Ωbridge 2800W@4Ωbridge
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 / 36dB / 32dB
Input Connectors Output Connectors	NEUTRIK® male XLR & female XLR 3×NEUTRIK® Speakon NL 4MP
Filter Capacitor Capacity	12000µf / 80V×8
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
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 ⁺
Power Consumption (Dual channel driven 4Ω, 1/8RMS / 230V)	3.4A
Rack Space	2U
Cooling	Back to front venting, mandatory cooling
Dimension (W×H×D)	483×88×456mm
Net Weight	22.5Kg



PRO9.0



PRO12.0



Rated Power (20Hz-20KHz, <0.1%THD)	2×1000W@8Ωstereo 2×1500W@4Ωstereo 2×1950W@2Ωstereo 3000W@8Ωbridge 3900W@4Ωbridge
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 / 36dB / 32dB
Input Connectors Output Connectors	NEUTRIK® male XLR & female XLR 3×NEUTRIK® Speakon NL 4MP
Filter Capacitor Capacity	15000µf / 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)	≥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 ⁺
Power Consumption (Dual channel driven 4Ω, 1/ 8RMS / 230V)	4.6A
Rack Space	3U
Cooling	Back to front venting, mandatory cooling
Dimension (W×H×D)	483×132×484mm
Net Weight	34.0Kg

Rated Power (20Hz-20KHz, <0.1%THD)	2×1200W@8Ωstereo 2×1800W@4Ωstereo 2×2000W@2Ωstereo 3600W@8Ωbridge 4000W@4Ωbridge
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 / 36dB / 32dB
Input Connectors Output Connectors	NEUTRIK® male XLR & female XLR 3×NEUTRIK® Speakon NL 4MP
Filter Capacitor Capacity	15000µf / 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)	≥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 ⁺
Power Consumption (Dual channel driven 4Ω, 1/ 8RMS / 230V)	6.0A
Rack Space	3U
Cooling	Back to front venting, mandatory cooling
Dimension (W×H×D)	483×132×484mm
Net Weight	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	NEUTRIK® male XLR & Female XLR			
	Output	3×NEUTRIK® Speakon NL4MP			
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 ⁺			
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			