

VA Series Power Amplifier

VA Series, a professional and high-end amplifier, is famous for its stability, reliability and top performance.

The four models within this series offers a range from 800 watts to 1950 watts per channel at 2 ohms to satisfy all requirements.

Elegant LCD in the VA front panel. LCD will show the info like working mode, temperature, direct current protection and overload protection etc.

A lot of R&D effort has been put into VA with our new Class H+ output topology which eliminates cross switching distortion usually found in other Class H designs. With carefully selected components like audiophile Wima capacitors, VA Series has Hi-Fi sound and high damping factor. This makes VA Series suitable for any kind of application, from high power subwoofers to critical monitoring where very high requirements are mandatory.

VA Series with strong reliability and top stability fully expresses its remarkable performance.

The ultimate sound quality and performance of VA Series is the result of excellent circuit design, robust mechanical structure with best components selected for this category. AUDIOCENTER experienced electronic engineers and purchasing team spend a long time working together to study, select and compare the raw materials from VIP suppliers. After countless tests, we selected the best quality components for VA amplifiers without any compromise.

More than that, the long time reliability, even at 2ohms loads and complex capacitive loads all that makes the VA Series amplifiers the best in the world.

VA Series amplifier specifications

Specifications		VA401	VA601	VA801	VA1201
Maximum output power	4Ωbridge	5600W	7700W	9100W	18900W
	8Ωbridge	4200W	5250W	7700W	12600W
	2Ωstereo	2×2800W	2×3920W	2×4550W	2×8750W
	4Ωstereo	2×2100W	2×2625W	2×3850W	2×6300W
	8Ωstereo	2×1400W	2×1750W	2×2625W	2×4200W
Rated power (20~20kHz ≤0.1%THD)	4Ωbridge	1600W	2200W	2600W	5400W
	8Ωbridge	1200W	1500W	2200W	3600W
	2Ωstereo	2×800W	2×1120W	2×1300W	2×2500W
	4Ωstereo	2×600W	2×750W	2×1100W	2×1800W
	8Ωstereo	2×400W	2×500W	2×750W	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 (8Ω 1KHz)		0.775V/32dB/26dB		0.775V/36dB/32dB	
Connectors	Input	jack & NEUTRIK male XLR			
	Output	3×NEUTRIK Speakon 4P & Binding post			
Filter capacitor capacity		10000μf/63V×4	10000μf/63V×8	10000μf/80V×8	6800μf/100V×12
Input impedance	Balanced	20KΩ			
	Unbalanced	10KΩ			
Crosstalk(20Hz-20KHz, Rated power 8Ω)		≥60dB			
S/N ratio (Rated power 8Ω;A weighted)		≥103dB			
Damping factor(1kHz&8Ω)		≥350			≥650
Intermodulation distortion (20Hz-20KHz,half power)		≤0.1%			
Harmonic distortion (8Ω&20Hz-20KHz,half power)		≤0.1%			
Phase response (1W & 8Ω,20Hz-20KHz)		20Hz+4°20KHz-12°			20Hz+5° 20KHz-20°
Slew rate		≥25V/μs			
Output circuitry		CLASS AB		CLASS H+	
Power consumption (Dual channel driven4Ω, 1/8RMS/230V)		3.1A	4.3A	3.4A	5.0A
Rack space		2U			3U
Cooling		Back to front venting, Mandatory cooling			
Dimension(W×H×D)		483×88×456mm			483×132×506mm
Net weigh		18kg	20kg	21.5kg	40kg
Technical support and after-sales service					

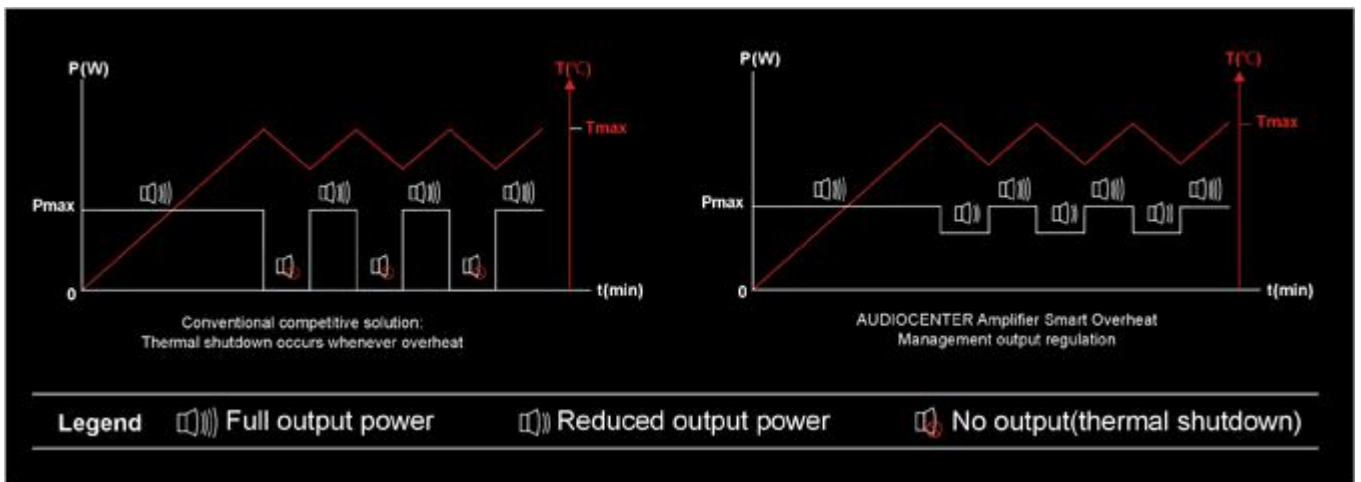
A - Guard protection system

A-Guard is AUDIOCENTER comprehensive protection system which includes overload limiter with optimized attack time. 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 why VA amplifiers are able to sustain full power output even under complex capacitive loads.

Smart Overheat Management

AUDIOCENTER Smart Overheat Management gives VA series the ability to perform in high temperature environments without thermal shutdown. This unique circuitry monitors the amplifier's

temperature in real time and when the safe operation of the amplifier is compromised, the output power is reduced but not shutdown.

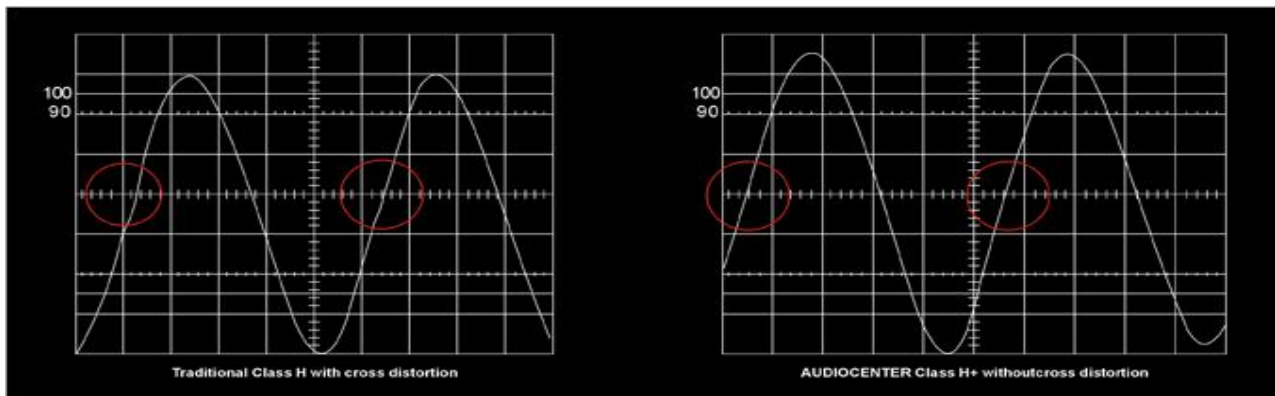


Class H+ Circuit design eliminates Cross switching distortion

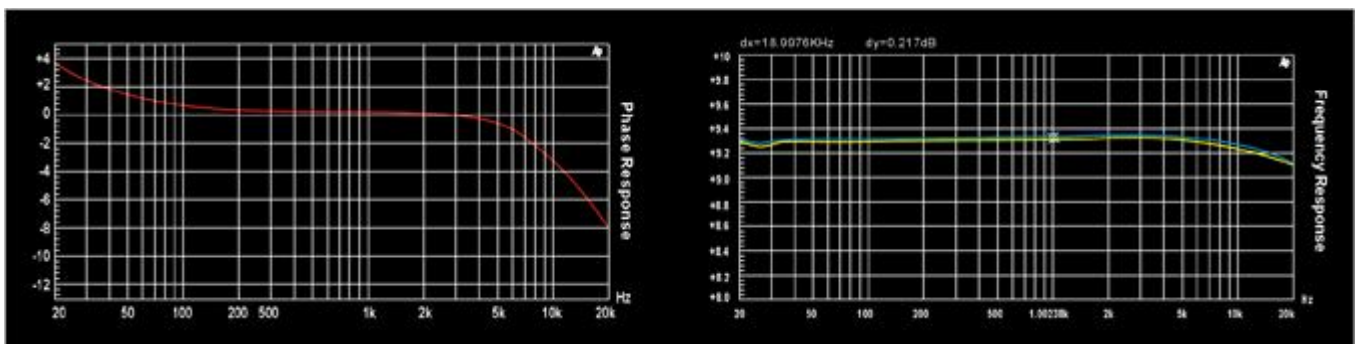
After many hours R&D research, AUDIOCENTER has created new circuitry to eliminate the Class H cross switching distortion. We have done this by the accurate time alignment compensation on the Critical switching path. The result is the same low distortion as Class AB. In fact, all VA amplifiers enjoy less than 0,01% THD at 16kHz, half power.

That's why the sound of the VA series is so clean and natural. We call it Class H+ and it's only available in AUDIOCENTER amplifiers.

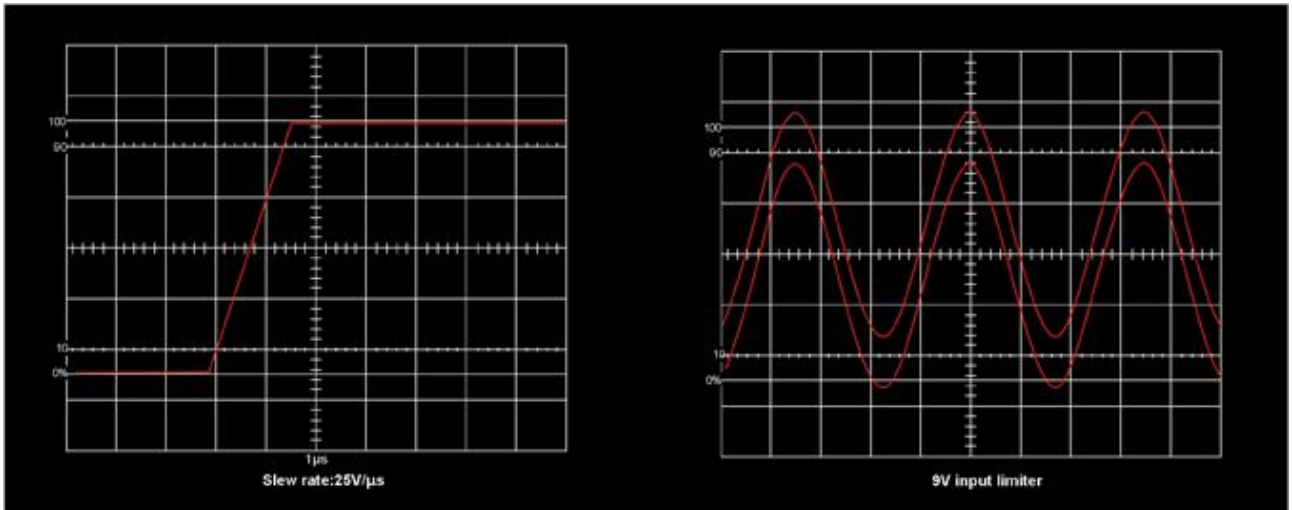
Phase Response & Frequency Response(tested by AP)



The advantages of Class H+ can be seen and measured in real world. Phase and Frequency response performance are close to perfect and we clearly lead the category, thanks to our Class H+ topology.



Slew Rate & Input Limiter



- With a slew rate of 25V/μs, VA amplifiers are among the fastest in the market.
- AUDIOCENTER A-Guard input overload limiter is efficient up to 9V, when many competitive circuitries are over-driven above 3V.