SOUNDSTANDARD

Class I™ Toroidal Power Amplifier

CA series

SAE Audio legendary CA series had been improved with a new attractive front panel design and implementing SAE renowned high-efficiency Class I™ technology for an even better sound quality on these mid-range power amplifier series. With and an also enhanced adjustable internal X-Over functionality, the CA series represent an exponent on speakers adaptability to reach the best performance on multi-way bi-amplified sound reinforcement systems.

Features

- Toroidal transformer power supply.
- High efficiency Class I™ power modules.
- Highly sensitive CMRR balanced inputs for improved noise rejection.
- Channel independent power, signal and clip indicators on the front panel.
- Channel independent protection warning indicators on the front panel.
- XLR input and signal link connectors.
- SpeakON NL4 and binding post output connectors.
- Input sensitivity selector on the back panel (1.4v / 1v / 0.775v).
- Routing mode selector (stereo / bridge / parallel / crossover) on the back panel.
- Mains circuit-breaker on the back panel.
- X-Over functionality status indicator on the back panel.

Applications

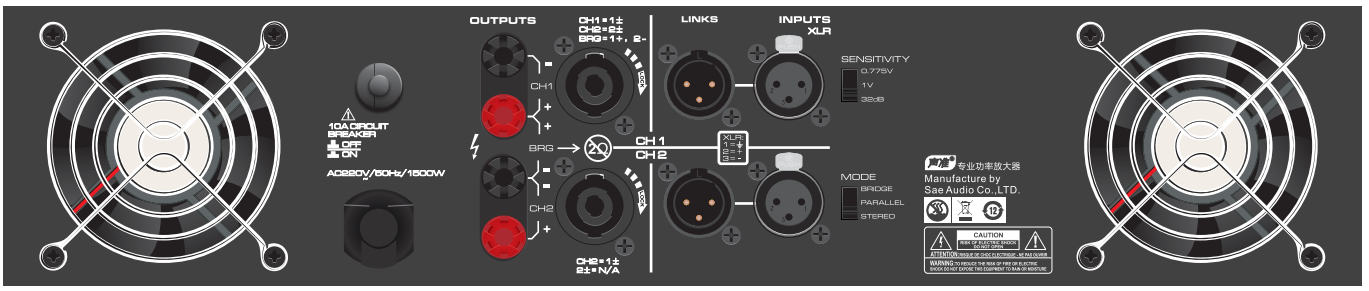
- Small and mid sized bar/café/lounge installation.
- Multi-way bi-amplified sound reinforcement systems.

Technology

Class I™
SAE Audio patented Class I™ is the most advanced technology on high power audio amplification. The output signal amplified through a Class I™ power module accurately tracks the input signal waveform, achieving a much greater efficiency and sonic quality than on other standard amplifier classes. Class I™ amplification is capable to deliver extremely high power density with an unprecedented audio fidelity.

Internal X-Over
Further quality sound performance can be achieved enabling the CA series internal crossover functionality for 2-way bi-amplified sound reinforcement systems. The CA series internal X-Over split the audio signal into separate frequency bands, routing the low frequency signal component to the CH1 output and the mid-high frequency component to the CH2 output. For further performance optimization the crossover frequency can be easily adjusted from 60Hz to 150Hz with a rotating knob located on the back panel.

HS-CMRR Balanced Inputs
The best signal quality at an amplifier output can only be achieved with the best signal quality at its input. With the CA series is not a problem to have long signal input cables along with power lines or other induced noise sources. The balanced signal inputs on the CA amplifiers implement a High Sensitivity CMRR (Common Mode Rejection Ratio) design in order to reject even the slightest added distortion on the signal, thus assuring the best possible audio signal at the input.

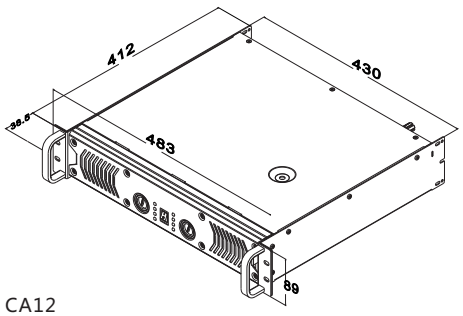


CA12 rear panel

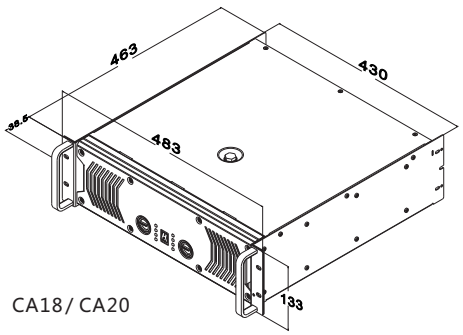
Specifications

Model	CA12	CA18	CA20
Output power (AC 220v / 50Hz. ±10%, All channels driven output power, THD=1%)			
8Ω Stereo*	850W x2	1500W x2	2000W x2
4Ω Stereo**	1500W x2	2500W x2	3600W x2
2Ω Stereo**	2000W x2	3300W x2	5200W x2
8Ω Bridge**	3000W	5000W	7200W
4Ω Bridge**	4000W	6000W	8200W
Other specification			
Frequency response	20Hz - 20kHz , +0/-1.5dB		
THD+N	≤ 0.02%	≤ 0.05%	≤ 0.05%
S/N rate	≥ 95dB		
Damping factor	> 280		
Input sensitivity	0.775v / 1v / 32dB		
Input impedance (bal/unbal)	20kΩ / 10kΩ		
Voltage gain	40.5dB	43dB	44.2dB
Cooling	Air flow from front to rear		
Dimension / Weight			
Product dimensions (mm)	483 x 450.5 x 89 (2U)	483 x 501.5 x 133 (3U)	
Packing dimensions (mm)	620 x 585 x 170 (2U)	620 x 585 x 210 (3U)	
G.W.	22kg	32kg	33kg

Dimension (mm)



CA12



CA18/ CA20

*Power tested under EIA standard. **Power tested under the condition of 40ms burst, 1KHz sine wave and 1% THD.
SAE reserves the right to make any changes to the product specifications without prior notice. Final specifications to be found in the user manual.

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