Dual Channel Amplifier XA Series

SVXA-300 ,SVXA-450,SVXA-600,SVXA-800,SVXA-1000,SVXA-1200,SVXA-1500

Solvision SVXA Series is a line of high-performance Class AB amplifiers designed with advanced technology to overcome the common challenges of traditional high-power amplifiers. This innovative Class AB design effectively addresses issues such as:

- Reduced Weight: Lightweight construction for easier handling and installation.
- Compact Dimensions: Space-saving design for flexible placement.
- Enhanced Cooling: Improved thermal efficiency to prevent overheating during extended use.

By optimizing power usage, the XA Series delivers powerful output with exceptional efficiency, making it an ideal solution for applications requiring high performance and reliability.

Key Innovations and Features Class D-inspired Working Modes

The SVXA Series integrates improved technology inspired by Class D amplifiers to achieve the efficiency of Class AB operation at the output stage. This allows for nearly all energy to be directed toward the output, minimizing energy loss to heat dissipation.
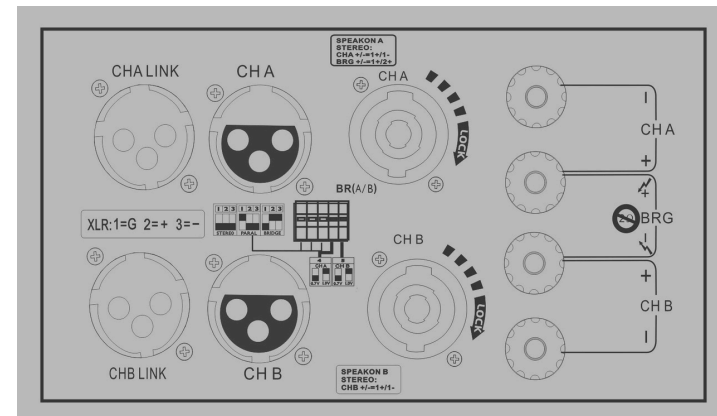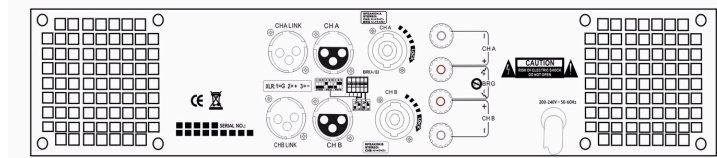
Exceptional Sound Quality:

The output signal maintains the rich, high-quality sound characteristic of Class AB amplifiers while ensuring the signal remains in its analogue state from input to output—avoiding any digital conversion that could degrade audio fidelity.

Optimal Efficiency: Utilizing minimal input performance to deliver large output signals significantly enhances overall efficiency, making these amplifiers ideal for high-demand applications.

Features

- Features of the SVXA Series Class AB Amplifiers:
- Advanced Class AB Technology
- Combines Class D's high efficiency with Class AB's superior sound quality.
- Maintains the signal in an analogue state from input to output, avoiding digital conversion and preserving audio fidelity.
- Enhanced Power Output
- Delivers robust power output to meet demanding audio requirements.
- Resolves the power limitations of traditional Class AB amplifiers.
- Efficient Thermal Management
- Significantly reduces heat dissipation with advanced cooling mechanisms.
- Addresses overheating issues seen in Class H amplifiers.
- Compact and Lightweight Design
- Reduces weight and dimensions for easier transportation and installation.
- High Energy Efficiency
- Almost all energy is directed toward the output, minimizing energy loss to heat.
- Optimized for minimal power input while delivering powerful output signals.
- Exceptional Sound Quality
- Produces rich, distortion-free audio with Class AB working modes.
- Ensures precise signal reproduction for professional applications.
- Durability and Reliability
- Extensively tested circuitry ensures long-term performance.
- Suitable for continuous operation in demanding environments.

The SVXA Series is the ideal solution for professional audio applications requiring a balance of high power, efficiency, and uncompromised sound quality.

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Specifications

Model	SVXA-300	SVXA-450	SVXA-600	SVXA-800	SVXA-1000	SVXA-1200	SVXA-1500
Stereo mode	2×8 ohm 300W per channel,	2×8 ohm 450W per channel,	2×8 ohm 600W per channel,	2×8 ohm 800W per channel,	2×8 ohm 1000W per channel,	2×8 ohm 1200W per channel,	2×8 ohm 1500W per channel,
	@ 1 kHz<0.05% T.H.D.;	@ 1 kHz<0.05% T.H.D.;	@ 1 kHz<0.05% T.H.D.;	@ 1 kHz<0.05% T.H.D.;	@ 1 kHz<0.05% T.H.D.;	@ 1 kHz<0.05% T.H.D.;	@ 1 kHz<0.05% T.H.D.;
	2×4 ohm 450W per channel,	2×4 ohm 675W per channel,	2×4 ohm 900W per channel,	2×4 ohm 1200W per channel,	2×4 ohm 1500W per channel,	2×4 ohm 1800W per channel,	2×4 ohm 2250W per channel,
	@ 1 kHz<0.05% T.H.D.	@ 1 kHz<0.05% T.H.D.	@ 1 kHz<0.05% T.H.D.	@ 1 kHz<0.05% T.H.D.	@ 1 kHz<0.05% T.H.D.	@ 1 kHz<0.05% T.H.D.	@ 1 kHz<0.05% T.H.D.
Bridge mode	1×8 ohm 600W per channel,	1×8 ohm 900W per channel,	1×8 ohm 1200W per channel,	1×8 ohm 1600W per channel,	1×8 ohm 2000W per channel,	1×8 ohm 2400W per channel,	1×8 ohm 3000W per channel,
	@ 1 kHz<0.05% T.H.D.	@ 1 kHz<0.05% T.H.D.	@ 1 kHz<0.05% T.H.D.	@ 1 kHz<0.05% T.H.D.	@ 1 kHz<0.05% T.H.D.	@ 1 kHz<0.05% T.H.D.	@ 1 kHz<0.05% T.H.D.
Frequency response	20Hz - 20 kHz; +0/-0.3 dB 1W/8 ohm						
Input sensitivity	0.775V/1.0V/1.4V						
THD	<0.5dB						
Input impedance	>20K />10K						
SNR	>105 dB						
Dynamic Range	≥90 dB						
Damping factor	>200						
Slew rate	>15 V/us						
Voltage gain	30dB						
Output category	Class AB						
Protection function	High-temperature protection, DC protection, boot protection, overload protection						
Power supply	220V-240V/50-60HZ						
Dimensions	(W×D×H) 483×430×88mm						
Gross weight	G.W.16kg	G.W.18kg	G.W.22kg	G.W.24kg	G.W.26kg	G.W.28kg	G.W.30kg

These amplifiers offer higher fidelity and efficiency. The push-pull pair of output transistors in a Class AB amp are each on more than half the time, and they don't turn on and off abruptly. There's an optimum bias current for each amplifier that cuts down the crossover distortion of Class B design. Class AB amplifiers have much higher efficiency than Class A amps, up to 60%, and less distortion than Class B amplifiers. Thus, they are a practical and apt choice for theatre and stereo amplifiers.