



SDA 8300 and SDA 4600 Amplifiers



MAXIMUM POWER. MINIMUM SPACE.

The JBL Synthesis® SDA 8300 and SDA 4600 High-performance Installation Amplifiers

The JBL® name represents a long, proud history of invention, insight, and setting one industry standard after another. For over 67 years, JBL has brought the joy of sound to people around the globe, with products demanded by those seeking only the very best.

The expertise accumulated along the way is why JBL Synthesis gives your home theater the audio sophistication sought by directors, actors, recording artists, touring musicians, and others. In a JBL Synthesis home theater, you will discover a showcase of audio perfection. Backed by decades of award-winning engineering innovation offering uncompromised, realistic sound that is revered by professionals and purists alike, JBL Synthesis systems deliver the ultimate in performance.

The SDA 8300 and SDA 4600 are designed for maximum power and minimum space while seamlessly integrating into any JBL Synthesis System. The amplifiers digitally connect to our SDEC Room Equalizer for a complete end-to-end digital solution and also stand on their own in a wide array of upscale applications. With greater accuracy, less weight and superb signal-to-noise performance both the SDA 8300 and SDA 4600 deliver best-in-class performance in an easy to install space-saving design.

FEATURES

DIGITAL INPUTS WITH ANALOG BACKUP

With digital audio transport via HARMAN's proprietary BLU-Link, plus balanced analog inputs, the SDA 8300 and SDA 4600 give you a tremendous audio advantage with much greater efficiency. The digital link from the SDEC 4500P to all SDA 8300 and SDA 4600 amplifiers in the system is handled by a single CAT5e cable daisy-chained between each unit. Up to 128 uncompressed high-resolution channels can be carried within the system, and up to 60 amplifiers can make up the signal chain. Simple hardware presets enable specific amplifier configurations for most JBL Synthesis System applications without any need for amplifier programming. The analog inputs are always available and if no BLU-Link digital input is connected the analog inputs automatically become active for standalone operation.

AMPLIFIER RACK DENSITY

Power points of 300W, 600W or 1200W in 2-/4-/8-channel configurations – all in a 2-rack unit form factor. More channels in one box allow smaller infrastructure rooms that can reduce operational costs while giving you the utmost in installation flexibility. Harman patented DriveCore™ technology puts much more power from less space, resulting in 2x to 4x the power in half the space of the previous generation of JBL Synthesis amplifiers.



BRIDGEABLE CHANNEL PAIRS

Unlike amps from other manufacturers, the SDA 8300 and SDA 4600 channels are bridgeable which means even more adaptability for higher power applications such as subwoofers and high power main speakers.

REMOTE ON/OFF INTERFACE AND AUTO STANDBY

Saves power by integrating the amplifier into a control system so you can easily turn it on and off through the contact closure AUX port. Each channel also has its own auto standby power so only the channels being used are active. This further reduces wasteful “zombie” power draw and excess standby heat and maximizes the Harman GreenEdge™ design.

EFFICIENT COOLING DESIGN

Highly efficient internal cooling fans provide airflow to the most heat-generating parts. Incorporating the fans into the amplifier brick design maximizes cooling while minimizing wasted energy and noise. This design also eliminates the need to have cooling vent spacers in the rack, further reducing the space needed in ever more compact and fully loaded rack rooms.

ADVANCED POWER FACTOR CORRECTION (PFC) UNIVERSAL POWER SUPPLY

The most advanced power supply in an installation amplifier delivers power more efficiently in almost any condition than any other amplifier, resulting in less power dissipated and less heat in your racks.

NETWORK MONITORING & CONTROL

Better monitoring, control and audio manipulation with the HiQnet™ protocol over standard TCP/IP. Remotely see how all networked SDA 8300 and SDA 4600 amplifiers are performing and control them as needed. In addition, this allows Harman HiQnet™ Audio Architect and “Powered By Crown” iOS® app software tools to work with the SDA 8300 and SDA 4600 amplifiers.

PACKED WITH EXTRAS

Digital Signal Processing including LevelMAX™ Limiters, Input/Output, Delay, Matrix Mixer, Speaker Line Monitoring, 70 Volt or 100 Volt capable outputs give these amplifiers options and features not found on any comparable high performance amplifier. These features can be used by advanced programmers now and will be utilized for premier whole house and high powered outdoor audio solutions. SDA amplifiers are the building blocks that will be used for years to come.

SPECIFICATIONS

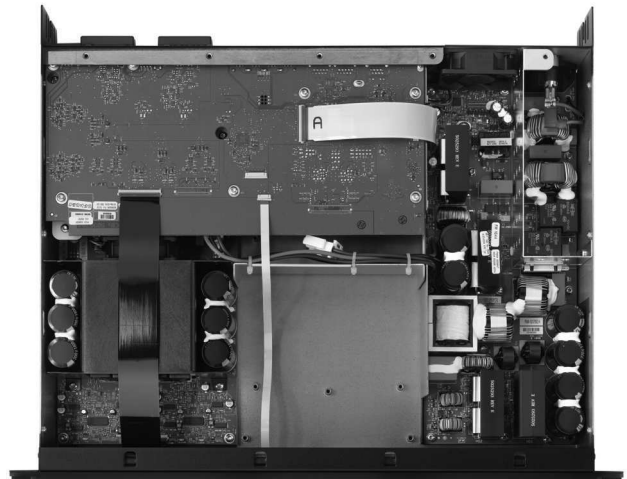
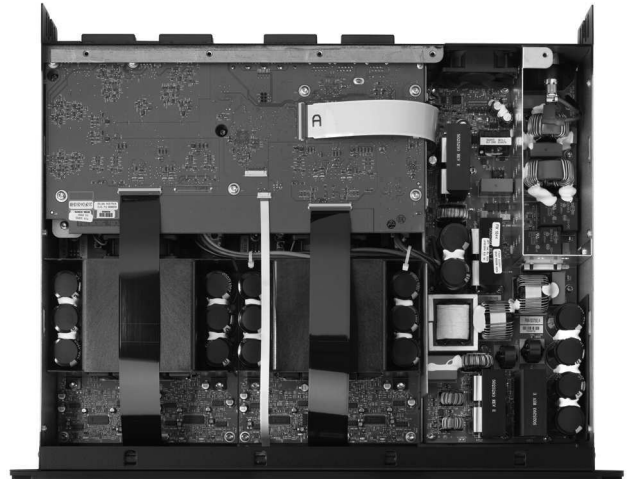
MODEL	CHANNELS	2 Ohms	4 Ohms	8 Ohms	8 Ohms bridged
SDA 8300	8	150	300	300	600
SDA 4600	4	300	600	600	1200

PERFORMANCE SPECIFICATIONS	
Frequency Response: [1W into 8Ω, 20hz – 20khz]	±0.25db
Signal-To-Noise Ratio (A-weighted)	>108db
THD	<0.35%
Maximum Input Level Before Compression	+20dbu
Maximum Input Level Before Clip	+26dbu
Voltage Gain	34db

PHYSICAL SPECIFICATIONS	
Input Connectors	Balanced 3-pin block connectors, one per channel
Output Connectors	2-pin terminal strip. Accepts up to 10Awg terminal forks and bare wire
Aux Connector	3-pin block connector
Attenuation Control	21 detent potentiometer for levels from ∞ to 0db
Dimensions	(Height x Width x Length): 3.5" x 19" x 14.25" (In Centimeters): 8.75 x 47.5 x 35.63
Weight	<30 lb
Cooling	Continuously variable speed fan, front-to-back airflow

NETWORK AMPLIFIERS INCLUDE THE PHYSICAL SPECIFICATIONS LISTED ABOVE, PLUS:	
BLU-Link Input	(2) RJ-45 connectors
Network Monitoring And Control	(1) RJ-45 connector
General Purpose Input/Output Control	(1) RJ-11 for 2 ins and 2 outs

ELECTRICAL SPECIFICATIONS	
Required AC Mains	(±10%): 100VAC – 240VAC 50/60hz
Power Draw In Sleep	Less than 1W
Power Connector	IEC 15A plug



SYNTHESIS[®]
by HARMAN



Harman International Industries, Inc.
8500 Balboa Blvd, Northridge CA 91329
+1 (888) 691-4171 www.jblsynthesis.com

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