

SMA-8300

8-channel Bridgeable Class D Amplifier

JBL

SYNTHESIS®



Product Overview

The SMA-8300 is a versatile 8-channel Class D power amplifier designed to deliver maximum power while taking up minimal rack space. Each channel is rated to deliver 300W into 8 ohms and adjacent channel pairs can be bridged to deliver 1,200W into 8 ohms. This flexible channel configuration makes this an ideal amplifier to power LCR, surround, height channel loudspeakers as well as subwoofers in JBL Synthesis immersive audio systems. Powerful built-in DSP allows for custom loudspeaker tuning and full external control allows for complete and easy system integration.

Highlights

- High-powered amplification with bridgeable outputs in a compact rack stackable design
- Designed to support high-power and high-channel count systems as part of a complete JBL Synthesis system solution
- Flexible design with bridgeable channels - suitable for all JBL Synthesis loudspeakers
- Full input and output Hi-Resolution DSP suite including EQ, Delay, and Limiters
- Optimized for residential applications with a CI focused UI and feature set
- DANTE / AES 67 *ready** digital audio networking

Specifications

Connectors	
Analog audio input	8x XLR (Balanced)
Digital audio input (Dante/AES67)	2x RJ45
Speaker output	Binding Posts, accommodates 10AWG wire, spade and banana termination
12VDC trigger control	1x 3.5mm (in) 1x 3.5mm (out)
Network/monitoring/control	1x RJ45
Power	Standard IEC
Power (2 channels driven, <0.5% THD)	
Rated Power (8Ω)	300W
Rated Power (4Ω)	600W
Rated Power (8Ω Bridged, one zone driven)	1,200W
Performance	
Digital signal processing	96kHz, 32-bit floating point
Frequency response (4Ω, 20Hz – 20kHz)	±0.5dB
Total harmonic distortion (at full rated power, from 20Hz – 20kHz)	0.35%
Analog input signal to noise ratio (ref. Rated power, 'a'-wtd.)	>105dB
Analog input signal to noise ratio (ref. Rated power, 20Hz – 20kHz)	>99dB
Damping factor (20Hz to 100Hz)	>1000
Input impedance (nominally balanced, nominally unbalanced)	70 kΩ balanced, 35 kΩ unbalanced
Maximum input level (low amp gain mode)	+21dBu
Load impedance stereo/dual mode	2Ω – 16Ω load
Impedance bridge mono	4Ω – 16Ω
Maximum fan noise (REF. dB SPL @ 1M)	51dBA
Electrical	
Power supply	100 – 220V ±10%, 50/60Hz
Physical	
Dimensions incl. rack ears, connectors, controls (H x W x D)	3.5 x 19.0 x 17.0 in (88.9 x 482.6 x 432.6 mm)
Net Weight	23.1 lb (10.5 kg)

Dimensions

