

8300

SAE
COMPONENTS FOR THE CONNOISSEUR



50 years ago SAE's first component, the MKII stereo amplifier, rearranged the amplifier world's power structure. Per *Stereophile*, a pair of MKII's had sweeter highs and dramatically improved bass when compared directly with the audio industry's then acknowledged "best". Our latest flagship, the dual-mono 2HP-D, repeats the exercise challenging all-comers for the title of world's best amplifier.

Our 8300 shares philosophy, goals and topology with the 2HP continuing SAE's diligent effort to achieve perfect musical reproduction. Power output is 300W RMS (or 1/2 HP mid-band) per channel at 8 ohms. With 8 channels on-hand arranged in two independent banks of four, the 8300 is entirely suitable for use in exacting multi-channel home theater applications or for multi-amping any audiophile oriented stereo system.

To maximize power output the 8300 has two independent power supplies each with its own massive 1950VA transformer, power cord and AC switch. . And it is the first SAE amplifier automatically ready for world-wide use. On first turn-on, the amplifier ascertains the available line voltage and self configures its transformer taps. And all protection circuits are optically coupled. They never intrude on the listening experience unless they are needed.



- Immense Power Output
- Dead Quiet
- Advanced Balanced Differential Circuit Topology with Current Feedback
- Dual DC Servos
- Dual Self Configuring Power Supplies
- Temperature Controlled Fan Cooling

SPECIFICATIONS

Inputs:	One balanced XLR jack per each of 8 channels
Input Impedance:	47 k Ω , balanced for each phase
Input Sensitivity:	1.96 V RMS for 300W at 8 Ω
Gain:	27.9 dB
Polarity:	Balanced: Pin 2 = Positive, Pin 3 = Negative for non-inverting output
Speaker Outputs:	One pair gold-plated binding posts per channel
Modes/Process:	Standby: Amplifier is ready to be turned on via front-panel switch or remote trigger
Protection:	Over current, DC and/or thermal protection, Amplifier will cycle Catastrophic DC or output stage failure, Amplifier will shut down

POWER OUTPUT

Per Channel with all channels driven:	8 Ω	4 Ω
20-20 kHz <0.03% THD, Watts RMS	300	450
1 kHz, 0.03% THD, Watts RMS	330	495
1 kHz, 1.0% THD, Watts RMS	375	650
1 kHz, 1.0% THD, Horsepower	½	0.8
CEA 2006 1 kHz Burst Power, Watts RMS	600	1000

DISTORTION

THD + N, 20 Hz to 20 kHz at rated output	0.025%	0.025%
THD + N, 1 kHz at rated output	0.015%	0.01%
THD + N, at 10W	0.005%	0.015%

INTERMODULATION DISTORTION

SMPTE or Twin-Tone	0.05%	0.05%
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Frequency Response, +0, -3 dB, 8Ω:	5 Hz to 120 kHz
Damping Factor:	>400 at 100 Hz
Signal to Noise Ratio:	>120 dB referenced to rated output; "A" Weighted
Slew Rate:	>50V per μ S
Crosstalk:	>90 dB
Power Requirements:	117V AC 230V AC, 50/60 Hz; Self Configuring
Power Consumption:	<.5W at Standby; 1800W x 2 Maximum
Trigger Input:	3-24 V DC, Steady State

DIMENSIONS

(W x H x D):	19" x 8¾" x 20.25"; 483 x 222 x 515 mm Add 5/8" (16 mm) for feet; Add 2.5" (64 mm) for connectors
Weight:	145 lbs; 65.9 kg



When even more power is required, consider the SAE 2HP. 600W RMS x 2 at 8 Ω and 1200 W x 2 at 4 Ω and 2 Ω .



The SAE 2HP received a "CLASS A" rating and recommendation from *Stereophile* in their March, 2017 issue.