

High Power Stereo Series

2 x 900 Watt 6 Ohm Class D Audio Amplifier Board -HV (AA-AB32551)



Key Features:

- Output Power
900W @ 60Ohm 120VDC, THD+N 10%
- Wide Power Supply Range from DC48V - 136V
- Signal Level Sensor System
- Flexible Input Sensitivity
- Flexible load characteristic
- Optimized Thermal Control
- Power and Clip Indicator
- Weight: 870g/1.92 lbs (±10%)
- Size: 6 x 4.5 Inches PCB Size

Distributors:



All these boards are pre-tested with our power supply solution to comply with FCC and CE. For all customers who need those information, please contact our distributor or Sure Electronics. RoHS compliant will need an MOQ of 1000 pieces per order.

Ready for:

RoHS

Contact info

- Email:
info@sure-electronics.com

Electrical Specifications

Specifications typical @ +25°C, powered by 120V DC, unless otherwise noted. Specifications subject to change without notice.

Parameter	Conditions	Min.	Typ.	Max.	Units	
Power Supply	-	48	120	136	V	
Number of Channels	-	-	2	-	-	
Minimum Load Impedance	-	-	4	8	Ω	
Efficiency	2X900W@60Ohm	-	90	-	%	
Nominal Power Requirement	@120V	-	2000	-	W	
Operating Voltage	-	48	120	136	V	
Idle Power	Signal detected (Load 4 Ohm)	FANON	-	18	-	W
		FANOFF	-	17	-	W
	No Signal detected	-	2	-	W	
Switching Frequency	SD Floating@120V	-	550	-	kHz	
Power Consumption	1/4 of max output power@60Ohm, 120V	-	500	-	W	
	1/8 of max output power@60Ohm, 120V	-	300	-	W	
Control	Standby (Low = inputs enabled)	High-level Input Voltage	3.3	-	5.5	V
		Low-level Input Voltage	-	-	0.4	V
Standby Power	SD short to GND, only when low power module available	-	2	-	W	
Under Voltage Protection	-	-	40	-	V	

Audio Performance

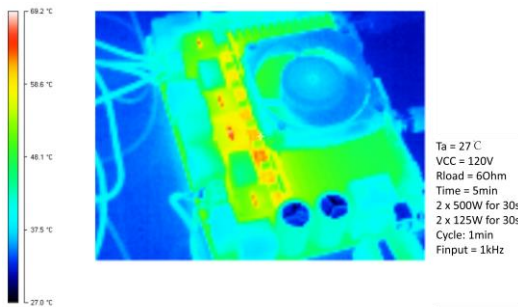
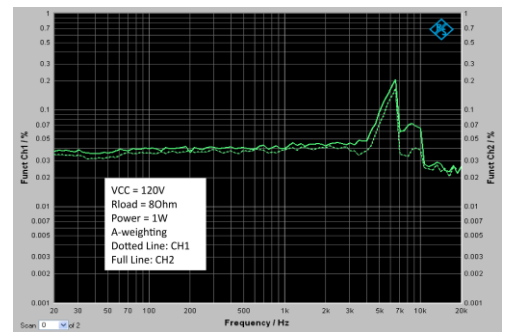
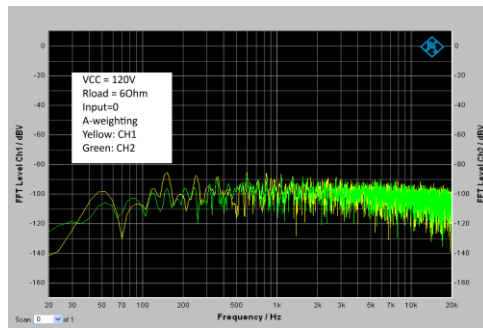
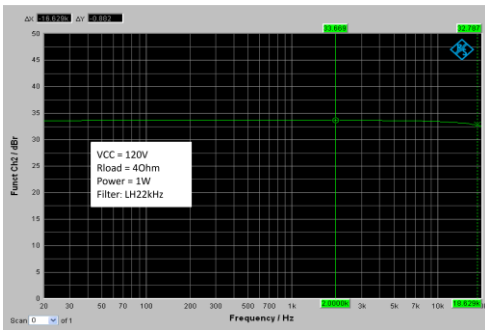
Specifications typical @ +25°C, powered by 120V DC, unless otherwise noted. Specifications subject to change without notice.

Parameter	Conditions	Min.	Typ.	Max.	Units
Input Sensitivity	900W@60Ohm, 1kHz	-	1.1	-	V
SNR	480W@60Ohm, THD+N 1%, A-weighting	-	99	-	dB
THD+N	1W@60Ohm, 1kHz	-	0.05	-	%
	10W@60Ohm, 1kHz	-	0.03	-	%
Input Impedance	-	-	10	-	kΩ
Output Noise Level	A-weighting, Input Connected to GND	-	450	-	uV
DC Offset	-	-	30	-	mV
Crosstalk Separation	10W@60Ohm, 1kHz	-	-80	-	dB
Bandwidth	-	20	-	20K	Hz
Gain	@60Ohm, 1kHz	-	37	-	dB

All parameters were tested with Rohde & Schwarz UPV audio analyzer (AES17 filter enabled) and Audio Precision AUX0025 filter. For authorized distributors and OEM customers who need more detailed performance graphs and parameter settings, please send an inquiry e-mail to us (Not available for retail customers). For customers whose application requires -20°C - +85°C, please contact us at store@sure-electronics.com.



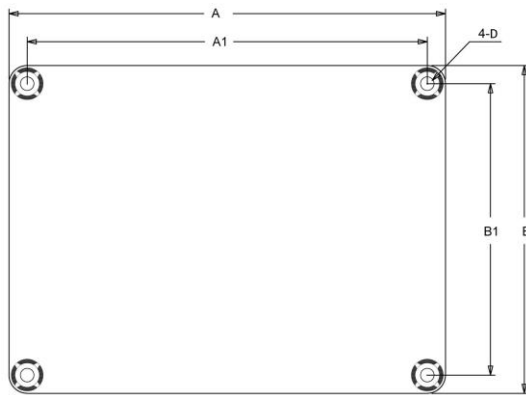
Typical Performance Graphs



Test	Temperature		Duration/ Operation
Burn In Test	25°C	25°C	48hours
Low Temperature, Operating	0°C	0°C	Checking startup performance
High Temperature, Operating	55°C	55°C	2hours
Change of Temperature, Operating	0°C	50°C	On customers' requirement

The tests above are carried out under regular conditions. Please contact us directly if you require test reports under extreme conditions, especially for industrial and military purpose.

Mechanical Dimensions

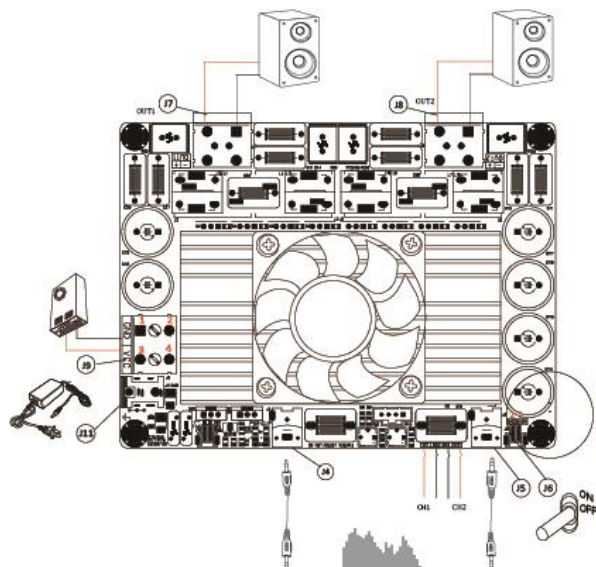


Dimension	A (inch/mm)	A1 (inch/mm)	B (inch/mm)	B1 (inch/mm)	D (inch/mm)
	6.00/152.40	5.60/142.24	4.50/114.3	4.10/104.14	0.15/3.8

Notes:

- All dimensions are typical in inches/mm
- Tolerance x.xx = ±0.02(±0.50)

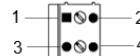
Connections



Switching Power Supply Connector:

- J9

Pin	Function
1	GND
2	
3	VCC
4	



Power Adapter Connector:

- J11 DC Jack ID 2.5mm x OD 5.5mm



Audio Input Connector:

- J4, J5 RCA Jack

- CH1, CH2 Line-Input

Audio Output Connector:

- J7, J8 Molex-4Pin-3mm

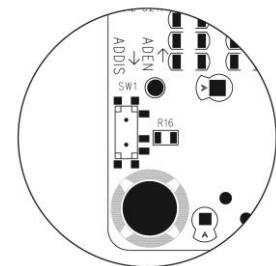
- J7 OUT1

- J8 OUT2

Control Connector:

- J6

Pin	Function
1	SHDN
2	GND



SW1 on the backboard can be used to turn off the Signal Detection Function. When the switch is turned to ADDIS, the signal detection function will be turned off. Take the silkscreen on board for reference.



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