

# Modesty Series

## Sure A2015 2 x 15 Watt 4 Ohm Class D Audio Amplifier (AA-AS32157)



### Key Features:

- Multiple Audio Input Source
- Rotary Encoder Switch Control
- Full Protection
- Low Power Consumption
- Aluminum Anodizing Housing
- Weight:486g/1.07 lbs. (±10%)
- Size:6.40inchX2.90inchX1.90inch

### Electrical Specifications

Specifications typical @ +25°C , Powered by 12V DC , unless otherwise noted. Specifications subject to change without notice.

Parameter	Conditions	Min.	Typ.	Max.	Units
Power Supply	-	-	12	-	VDC
Idle Power	SD Floating	-	1.2	2.5	W
Maximum Current	30W @ 4Ohm	-	3.1	-	A
Efficiency	15W @ 4 Ohm	80	-	85	%
Minimum Load Impedance	-	-	4	-	Ω
Switching Frequency	SD Floating	-	400	-	KHz

### Audio Performance

Specifications typical @ +25°C , Powered by 12V DC , unless otherwise noted. Specifications subject to change without notice.

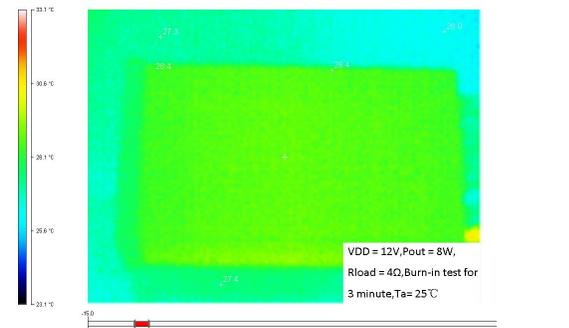
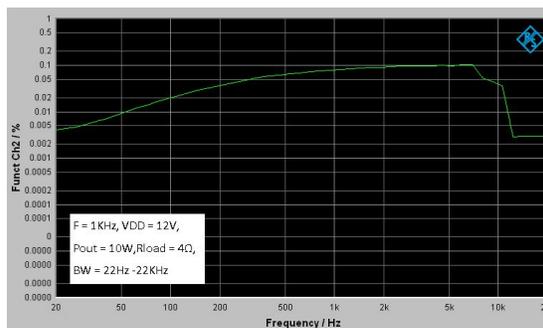
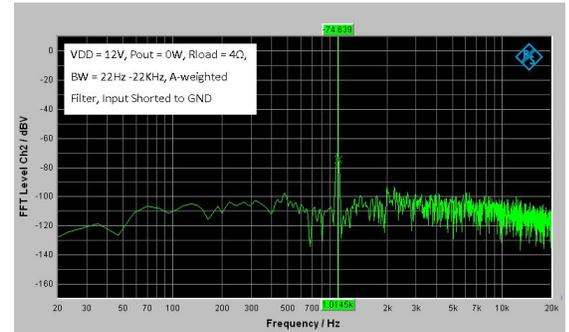
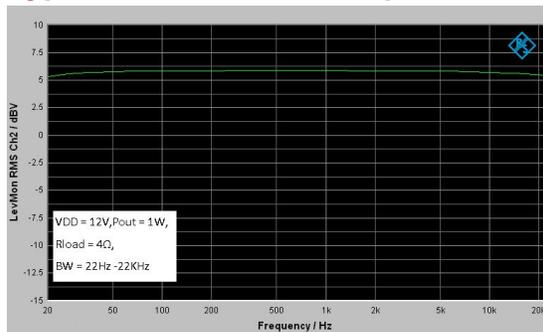
Parameter	Conditions	Min.	Typ.	Max.	Units
Gain	Max Volume Level	18	20	22	dB
Input Sensitivity(RMS)	@ 4 Ohm, 15W, 1KHz, RCA	-	662	-	mV
Input Impedance	RCA	-	20	-	KΩ
Output Power	@ 4 Ohm, THD+N 1%	-	9	-	W
	@ 4 Ohm, THD+N 10%	-	15	-	W
Supports Sampling Rate	-	32, 44.1, 48, 88.2 and 96			KHz
Maximum Sampling Word Length	-	24			Bit
Bandwidth @ ±3dB	@ 4 Ohm	20	-	20K	Hz
THD	@ 4 Ohm, 1W, 1KHz, RCA	-	0.037	-	%
Output Noise Level	A-weighting, Input Connected to GND	-	134	-	uV
SNR	9W @ 4 Ohm, THD+N 1%, RCA Input	-	83	-	dB

### Environmental Conditions:

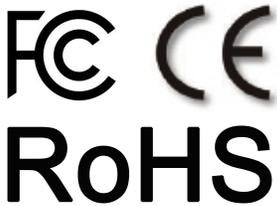
- Humidity: 5-85% RH Non-condensing
- Operating Temperature Ambient: 0°C to +55°C
- Storage Temperature: -40°C to 85°C

All these boards are per-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 1000pcs per order.

### Typical Performance Graphs



Ready for:



All parameters were tested with Rohde & Schwarz UPV audio analyzer (AES17 filter enabled) and AP 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)

## Model Selection Guide

Model Number	Output Power	Power Supply Range	3.5mm	RCA	BT	Toslink/Coaxial
AA-AS32157	2 X 15Watt	DC 9-14V	×	✓	×	×
AA-AS32171	2 X 50Watt	DC 12-20V	✓	✓	×	×
AA-AS32186	2 X 100Watt	DC 12-36V	✓	✓	×	×
AA-AS32971	2 X 100Watt	DC 12-36V	✓	✓	✓	✓

### Suggested power supply solution:

HuntKey 12V 3A 36W AC/DC Power Adapter (PS-SP11111)

If you have other power supply requirements, please feel free to contact us.

## Mechanical Dimensions

FIGURE Front panel

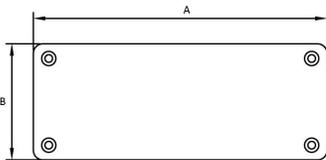


FIGURE Rear panel

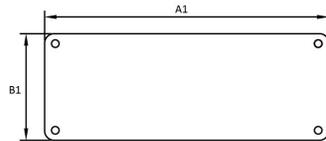
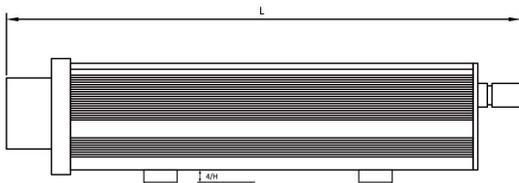


FIGURE Side view

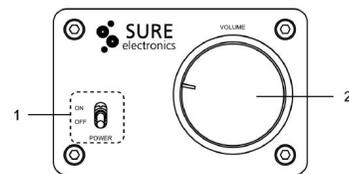
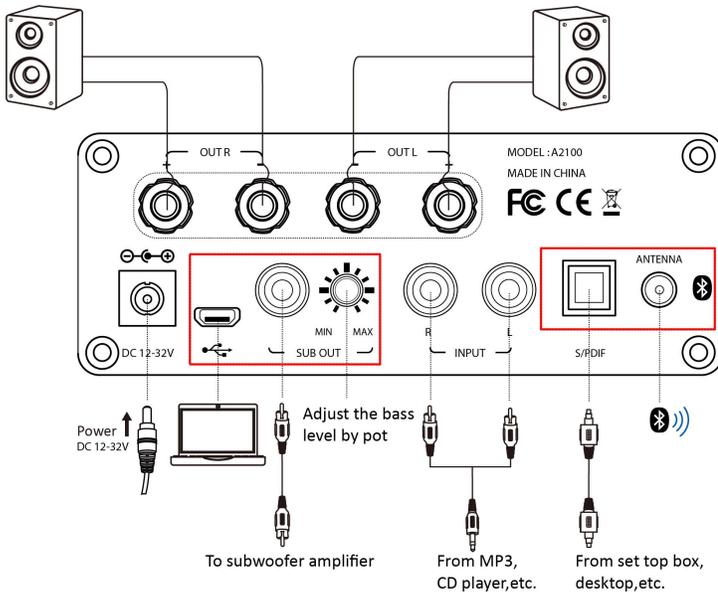


### Notes:

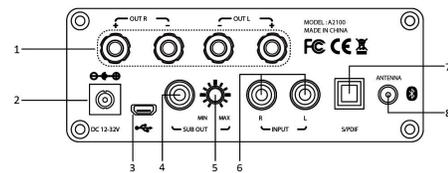
- All dimensions are typical in inches/mm
- Tolerance x.xx = ±0.02(±0.50)

Dimensions	A (inch/mm)	A1 (inch/mm)	B (inch/mm)	B1 (inch/mm)	L (inch/mm)	H (inch/mm)
#1	2.94/74.60	2.78/70.60	1.93/49.00	1.77/54.00	6.41/162.70	0.16/4.00
#2	4.88/124.00	4.72/120.00	1.93/49.00	1.77/54.00	8.36/212.40	0.16/4.00

## Connections



1—Power switch 2—Volume knob



1—Speaker output  
3—USB sound card  
5—Subwoofer volume control  
7—Optical fiber input  
(Port 3, 4, 5, 7, 8 are not included)

2—Power input  
4—Subwoofer output  
6—Audio signal input (RCA)  
8—Bluetooth receiver



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### Notes:

1. The output power is rated at the condition THD+N 10%, 1kHz sine wave.
2. None typical load may cause rating power reduction.
3. Dimensions mean length and width of aluminum case only, excluding excessive part out of the aluminum case outline.
4. All parameters were tested with Rohde & Schwarz UPV audio analyzer (AES17 filter enabled) and AP AUX0025 filter. Linear Power Supply units were used for testing.
5. Sure Electronics promise all standard products life cycle more than 5 years. Sure Electronics reserve the right to update the version without notice. All the products sent to retail customers are the latest version. We will provide back-to-order service (100 Pieces MOQ needed) for our distributors in 5 years.