

ATA-L Series Power Amplifier

Maximum output voltage 1020 Vrms

Maximum output power 1000VA

Overheating, overload protection



Monitor

Output current monitor: 100mV/A

Output voltage monitor: 10mV/V

The output monitor is BNC connector, which can be connected to the oscilloscope for real-time monitoring.

Introduction

ATA-L series is the wide band single channel amplifier capable of high power output. It can drive 0~100% resistive or non-resistive load, which can be flexibly adjusted by customers according to test requirements.

Model	ATA-L2	ATA-L4	ATA-L6	ATA-L8
Bandwidth (-3dB)	200Hz~120kHz	200Hz~120kHz	200Hz~120kHz	200Hz~120kHz
Maximum output voltage	424Vrms	848Vrms	1020Vrms	1020Vrms
Input voltage at full amplitude output	1Vrms (1kHz)	1Vrms (1kHz)	1Vrms (1kHz)	1Vrms (1kHz)
Maximum output power	200VA	400 VA	600 VA	1000VA
Voltage monitoring	10mV/ V	5mV/ V	5mV/ V	5mV/ V
Input resistance	10kΩ			
Current monitoring	100mV/A			
Total harmonic distortion (THD)	≤1%@1kHz, 100Vp-p			
Output connector	4mm Banana socket			
Fault lights	Overcurrent Protection			
Signal ground	Ground connected with the case and the power line			
Supply voltage	AC110~240V, 50/60Hz			
Operating temperature	0°C~45°C			
Storage temperature	-20°C~50°C			
Humidity	≤80%RH, no condensation			
Size (W * H * D)	440*290*565mm			

Tap selection according to the output impedance

Model	Output Impedance	Maximum Output Voltage	Maximum Output Current
L2	56Ω	106Vrms	1.89Arms
	224Ω	212Vrms	0.95Arms
	505Ω	318Vrms	0.63Arms
	898Ω	424Vrms	0.47Arms
L4	28Ω	106Vrms	3.79Arms
	112.4Ω	212Vrms	1.89Arms
	253Ω	318Vrms	1.26Arms
	449Ω	424Vrms	0.94Arms
	702Ω	530Vrms	0.75Arms
	1011Ω	636Vrms	0.63Arms
	1376Ω	742Vrms	0.54Arms
L6	1797Ω	848Vrms	0.47Arms
	48Ω	170Vrms	3.54Arms
	193Ω	340Vrms	1.76Arms
	434Ω	510Vrms	1.18Arms
	771Ω	680Vrms	0.88Arms
	1204Ω	850Vrms	0.7Arms
L8	1734Ω	1020Vrms	0.59Arms
	30Ω	170Vrms	5.67Arms
	115Ω	340Vrms	2.96Arms
	260Ω	510Vrms	1.96Arms
	460Ω	680Vrms	1.48Arms
	720Ω	850Vrms	1.18Arms
	1040Ω	1020Vrms	0.98Arms

Model	ATA-L10	ATA-L20	ATA-L30	ATA-L40	ATA-L50
Bandwidth (-3dB)	200Hz~120kHz	200Hz~120kHz	200Hz~120kHz	200Hz~120kHz	200Hz~120kHz
Maximum output voltage	1200Vrms	1200Vrms	1200Vrms	1200Vrms	1200Vrms
Input voltage at full amplitude output	1Vrms (1kHz)	1Vrms (1kHz)	1Vrms (1kHz)	1Vrms (1kHz)	1Vrms (1kHz)
Maximum output power	1300VA	2600 VA	4000 VA	5200VA	6500VA
Total harmonic distortion (THD)	≤1%@1kHz, 53Vrms (106Vrms tap)	≤1%@1kHz, 53Vrms (106Vrms tap)	≤1%@1kHz, 100Vrms (424Vrms tap)	≤1%@1kHz, 100Vrms (424Vrms tap)	≤1%@1kHz, 100Vrms (424Vrms tap)
Input resistance	10kΩ				
Voltage monitoring	5mV/ V				
Current monitoring	100mV/A				
Output connector	4mm Banana socket				
Protection	Overcurrent Protection				
Signal ground	It is connected with the grounding of the shell and the power line				
Supply voltage	AC110~240V, 50/60Hz				
Operating temperature	0°C~45°C				
Storage temperature	-20°C~50°C				
Humidity	≤80%RH, no condensation				

Tap selection according to the output impedance

Model	Output Impedance	Maximum Output Voltage	Maximum Output Current
L10	8.6Ω	106Vrms	12.32Arms
	17Ω	150Vrms	8.82Arms
	35Ω	212Vrms	6.06Arms
	69Ω	300Vrms	4.35Arms
	138Ω	424Vrms	3.07Arms
	277Ω	600Vrms	2.17Arms
	553Ω	848Vrms	1.53Arms
	1108Ω	1200Vrms	1.08Arms
L20	4.3Ω	106Vrms	24.65Arms
	8.6Ω	150Vrms	17.44Arms
	17Ω	212Vrms	12.47Arms
	35Ω	300Vrms	8.57Arms
	69Ω	424Vrms	6.14Arms
	138Ω	600Vrms	4.35Arms
	277Ω	848Vrms	3.06Arms
	553Ω	1200Vrms	2.17Arms
L30	45Ω	424Vrms	9.43Arms
	90Ω	600Vrms	6.67Arms
	180Ω	848Vrms	4.72Arms
	360Ω	1200Vrms	3.33Arms
L40	35Ω	424Vrms	12.12Arms
	69Ω	600Vrms	8.69Arms
	138Ω	848Vrms	6.14Arms
	277Ω	1200Vrms	4.33Arms
L50	28Ω	424Vrms	15.14Arms
	55Ω	600Vrms	10.91Arms
	111Ω	848Vrms	7.64Arms
	222Ω	1200Vrms	5.41Arms