

Class-A STEREO POWER AMPLIFIER

A-48S





Class A power amplifier building upon state-of-the-art Accuphase designs

The A-48S incorporates state-of-the-art technologies to create a Class A power amplifier that delivers superb performance. Benefitting from years of ideal designs of high-performance units, the A-48S utilizes 6-parallel pull-push power MOS-FETs and boasts an output of 50 W into 8 ohms, 100 W into 4 ohms, 200 W into 2 ohms, and 400 W into 1 ohm at the same size as conventional models. The noise level has also been further reduced by 6%, while providing a damping factor of 1,000. The A-48S will bring the best out of any speaker, enabling you to enjoy unparalleled sound quality and expansiveness.

Groundbreaking technology

The A-48S employs sophisticated circuitry and carefully selected materials to create a power amplifier with perfectly honed expressiveness.

■ Ample output power

The Class A driven 6-parallel push-pull power MOS-FETs in the output stage produce a linear output power of 50 W into 8 ohms, 100 W into 4 ohms, 200 W into 2 ohms, and 400 W into 1 ohm.

Excellent noise suppression performance

Ideal gain distribution and other sophisticated techniques improve noise level suppression by 6% over conventional models.

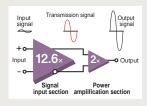


■ High damping factor

With a damping factor of 1,000, the speakers can be driven with full control over the counter-electromotive forces to get the most out of your speakers.

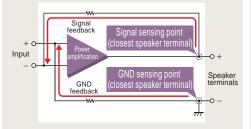
■ Ideal gain distribution

Allocating a high gain (12.6x) in the signal input section with its superb noise suppression rating drastically reduces output noise.



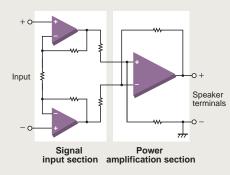
■ Balanced remote sensing

Balanced remote sensing improves the damping factor by feeding back the GND at the same time as the signal output from the speaker terminals.



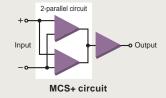
Instrumentation amplifier

With balanced circuits in the signal input section, the amplification stage is comprised entirely of an instrumentation amplifier principle that equalizes input impedance on the + and – sides for excellent external noise suppression while providing optimal circuitry for a high-end audio amplifier.



■ MCS+ circuit

By placing the voltage amplification stage in a two-parallel circuit layout, the MCS+ (Multiple Circuit Summing-up) circuit theoretically lowers the noise floor by about 30%.

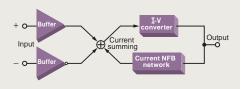


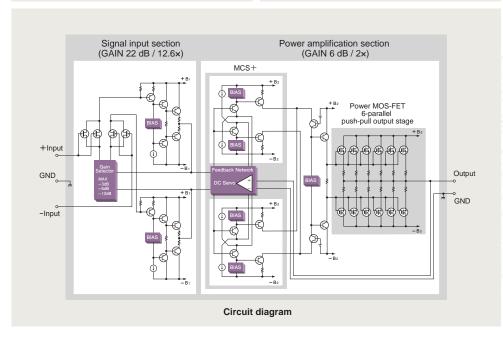


2-parallel circuit layout of MCS+ principle

■ Current feedback amplification topology

The current feedback amplification circuit offers exceptional performance in the high range with almost no impact on the frequency characteristics even when gain is switched, resulting in natural and dynamic driving of the speakers.







Advanced features

- Class A driven 6-parallel push-pull MOS-FET output stage
- Large linear output of 50 W / 8 ohms, 100 W / 4 ohms, 200 W / 2 ohms, 400 W / 1 ohm
- Instrumentation amplifier
- Current feedback amplification topology
- Balanced remote sensing
- MCS+ circuitry
- High damping factor of 1,000

- Polarity switching of balanced input connectors ········4
- \blacksquare Bi-amping connection and bridged connection switching $\cdots \textcircled{5}$
- Ideal gain distribution in the signal input section ········· (8)
 Speaker output protection circuit guards against
- short-circuiting

- High capacity 68,000 µF filtering capacitors ·················
- \blacksquare Aluminum hairline finish top plate $\cdots\cdots\cdots$ ①2
- Large, high-sensitivity power meters ranging from -50 dB ···· (4)
 Power amplification section with a large heat sink ······ (5)



①Meter display selector



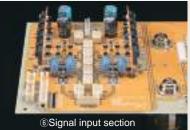
②Input selector ③Gain
button selector

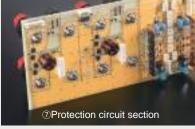


4 Balanced input polarity selector



⑤Operation mode selector

















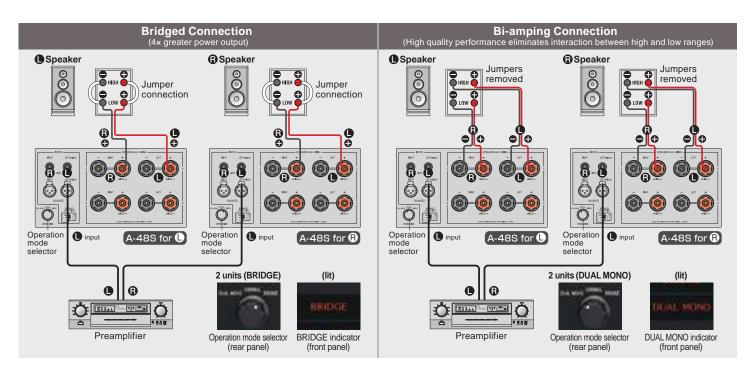








¹⁴Power meters





A-48S Guaranteed Specifications

Rated Output (20 – 20,000 Hz)	Load	8 ohms 4 ohms		2 ohms	1 ohm
	Normal / Bi-amping connection	50 W 100 W*		200 W*	400 W*
	Bridged connection	200 W* 400 W*		800 W*	_
Total Harmonic Distortion (20 – 20,000 Hz, at rated output)	Normal / Bi-amping connection	2 ohms		0.05%	
		4 to 16 ohms		0.03%	
	Bridged connection	4 to 16 ohms		0.05%	
Intermodulation Distortion		0.01%			
Frequency Response	At rated output	20 – 20,000 Hz (+0, –0.2 dB)			
	At 1 W output	0.5 - 160,000 Hz (+0, -3 dB)			
Damping Factor	Normal / Bi-amping connection	1,000			
Input Impedance	BALANCED / LINE input	40 kilohms / 20 kilohms			
Input Sensitivity	Output	At rated output At 1		At 1 W	output
	Normal / Bi-amping connection	0.80 V 0.11 V		1 V	
	Bridged connection	1.59 V 0.11		1 V	
Signal-to-Noise Ratio (A-weighted, input shorted)	GAIN switch at MAX / -12 dB	118 dB / 123 dB			

*: Limited	to	music	signals
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Gain	Gain switch	MAX	–3 dB	-6 dB	-12 dB	
	Gain	28 dB	25 dB	22 dB	16 dB	
Power Meters	Format	Logarithmic scale, with illumination Off switch				
	Display range	-∞ to +3 dB				
	Hold time	0 sec. / 3 sec. / ∞ switchable				
Power requirements	120/220/230 V AC, 50/60 Hz (Voltage as indicated on rear panel)					
Power Consumption	Idle	200 W				
	In accordance with IEC62368-1	220 W				
	Stand-by	0.3 W				
Maximum Dimensions	Width 465 mm (18.3") x Height 211 mm (8.3") x Depth 464 mm (18.3")					
Mass	Net	34.8 kg (76.8 lbs)				
	In shipping carton	41 kg (91 lbs)				

- The measurement methods for the Guaranteed Specifications comply with JEITA CP-1301A and IEC 60268-3.
- "Normal connection" indicates standard operation.

Supplied accessories AC power cord(2 m (6.5'))

- This product is available in versions for 120/220/230 V AC. Make sure that the voltage shown on the rear panel matches the AC line voltage in your area.
- The 230 V version has an Eco Mode that switches power off after 120 minutes of inactivity.

 The shape of the plug of the supplied AC power cord depends on the voltage rating and destination country.

