Accuphase

Class-A STEREO POWER AMPLIFIER

A-80

● Class A driven output stage with 10-parallel push-pull power MOS-FETs ● Large linear output of 65 W / 8 ohms, 130 W / 4 ohms, 260 W / 2 ohms, 520 W / 1 ohm ● Instrumentation amplifier principle ● Current feedback amplification circuits ● Balanced remote sensing ● MCS+ circuitry ● High damping factor of 1,000 ● Speaker output protection ● Highly responsive large-scale bar graph power meters ● Supports bi-amping and bridged mode connection





The ideal stereo power amplifier building on 50-year search for perfection

The A-80 is a Class A power amplifier developed as a stereo amplifier version of our 50th anniversary A-300 model. Optimizing the 10-parallel push-pull power MOS-FETs in the output stage produces an output power of 65 W into 8 ohms, 130 W into 4 ohms, 260 W into 2 ohms, and 520 W into 1 ohm. Rigorous investment into new, cutting-edge noise reduction technologies has achieved a sense of presence and minute expression that rival live performances. The A-80 power amplifier perfectly fuses modern technology with the wealth of knowledge Accuphase has amassed in its pursuit of perfect sonic expression.

Groundbreaking technology

The A-80 employs sophisticated circuitry and hand-selected materials to create a power amplifier with perfectly honed expressiveness.

Ample output power

The Class A driven 10-parallel push-pull power MOS-FETs in the output stage produce linear output power of 65 W into 8 ohms, 130 W into 4 ohms, 260 W into 2 ohms, and 520 W into 1 ohm.

High noise performance

Ideal gain distribution and other sophisticated techniques improve noise level suppression by 7% 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 (12.6×) in the signal input section with its superb noise suppression rating drastically reduces output noise.



Balanced remote sensing

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





Protection circuit section

Circuit diagram

Advanced features

- Class A driven 10-parallel push-pull MOS-FET output stage
- 65 W into 8 ohms, 130 W into 4 ohms, 260 W into 2 ohms, and 520 W into 1 ohm large linear output power Instrumentation amplifier
- Current feedback amplification topology
- Balanced remote sensing
- MCS+ circuitry
- High damping factor of 1,000
- Hold time switching function that changes the meter

- 4-step gain control
- ■ Bi-amping connection and bridged connection switching…⑦
- Signal input section with a fully discrete configuration
- Speaker output protection circuit guards against
- Large speaker terminals connected directly to protection
- Edgewise coils improve damping factor
- Highly reliable MOS-FET switches with no mechanical
- Large, high-efficiency toroidal transformer
- Aluminum hairline finish top plate
- Highly responsive large-scale bar graph meters and digital power meters
- High-carbon cast iron insulator feet with superior damping characteristics
- Power amplification section on circuit boards using



¹⁸Power amplification section



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stereo power amplipier A-80



A-80 Guaranteed Specifications

Rated Output (20 – 20,000 Hz)	Load	8 ohms	4 ohms	2 ohms	1 ohm		
	Normal / Bi-amping connection	65 W	130 W*1	260 W*1	520 W*1		
	Bridged connection	260 W*1	520 W*1	1,040 W*1	-		
Total Harmonic Distortion (20 – 20,000 Hz, At rated output)	Normal / Bi-amping connection	2 ohms		0.07 %			
		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, –3.0 dB)					
Damping Factor	1,000 or greater						
Input Impedance	BALANCED / LINE input 40 kilohms / 20 kilohms						
Input Sensitivity	Output	At rated	ated output At 1 W		output		
	Normal / Bi-amping connection	0.9	91 V 0.11 V		1 V		
	Bridged connection	1.8	2 V	0.11 V			
Signal-to-Noise Ratio (A-weighted, input shorted)	Gain switch at MAX / –12 dB	123 dB / 129 dB					

Gain	Gain switch	MAX	−3 dB	−6 dB	-12 dB		
	Normal / Bi-amping connection	28 dB	25 dB	22 dB	16 dB		
Power Meters	Format	Logarithmic scale, with illumination off switch					
	Display range	-∞ ~ +3 dB					
	Hold time	1 sec. / ∞ switchable					
Power Requirements		120/220/230 V AC, 50/60 Hz (Voltage as indicated on rear panel)					
Power Consumption	Idle	211 W					
	In accordance with IEC 62368-1	260 W					
	Stand-by	0.3 W					
Maximum Dimensions	Width 465 mm (18.3") × Height 240 mm (9.4") × Depth 515 mm (20.3")						
Mass	Net	44.6 kg (98.4 lbs)					
	In shipping Carton	54 kg (119 lbs)					

• The measurement methods for the Guaranteed Specifications comply with JEITA CP-1301A and IEC 60268-3.

*1: Limited to music signals

• "Normal connection" indicates standard operation.

Supplied accessories AC power cord

Remarks

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. * *

