

A-80





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.

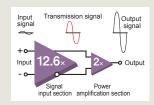


■ High damping factor

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.

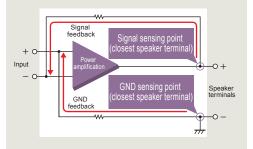
■ Ideal gain distribution

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



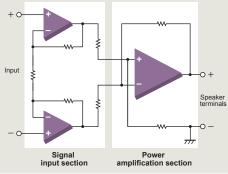
■ Balanced remote sensing

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



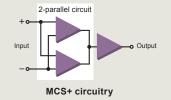
■ Instrumentation amplifier

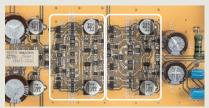
With balanced circuits in the signal input section, the amplification stage is comprised entirely of an instrumentation amplifier principle that equalizes input impedance on the + and – sides for excellent external noise suppression, while providing optimal circuitry for a high-end audio amplifier.



■ 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%.

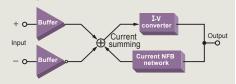


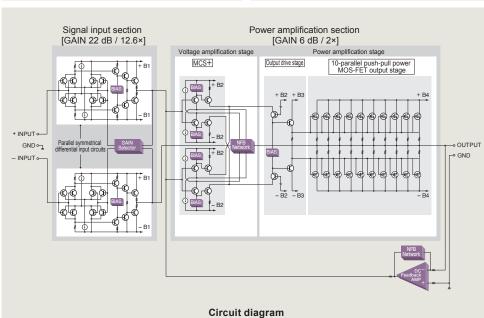


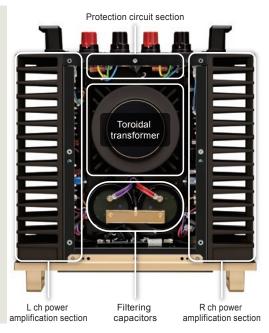
2-parallel circuit layout of MCS+ principle

Current feedback amplification topology

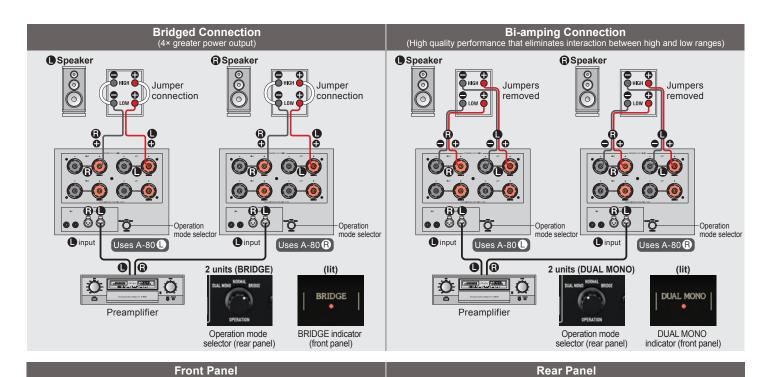
The current feedback amplification circuit offers exceptional performance in the high range with almost no impact on the frequency characteristics even when gain is switched, resulting in natural and dynamic driving of the speakers.

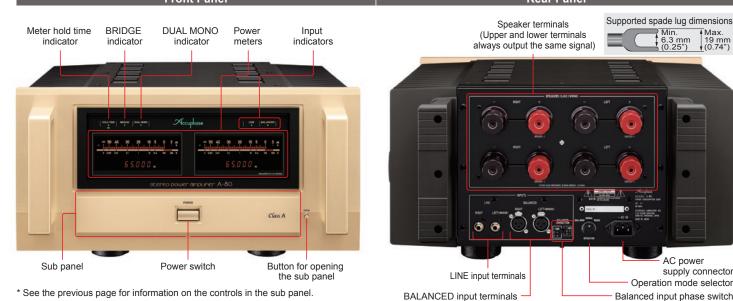












A-80 Guaranteed Specifications

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	output At 1 W out		output
	Normal / Bi-amping connection	0.9	1 V	0.11 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 switch MAX -3 dB -6 dB -12 dB Gain Normal / Bi-amping connection 28 dB 25 dB 22 dB 16 dB Format Logarithmic scale, with illumination off switch -∞ ~ +3 dB Power Meters Display range Hold time 1 sec. / ∞ switchable Power 120/220/230 V AC, 50/60 Hz (Voltage as indicated on rear panel) Requirements 211 W Idle Power In accordance with IEC 62368-1 260 W Consumption 0.3 W Stand-by Maximum Width 465 mm (18.3") × Height 240 mm (9.4") × Depth 515 mm (20.3") Dimensions Net 44.6 kg (98.4 lbs) Mass In shipping Carton 54 kg (119 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

- 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.



AC power

Operation mode selector

Balanced input phase switch

supply connector