

Class-A PRECISION INTEGRATED STEREO AMPLIFIER

E-800

● Integrated amplifier with fully balanced configuration extending from input to output
● Balanced AAVA type volume control ● Power amplification stage configured as instrumentation amplifier ● Six-fold parallel push-pull configuration of power MOS-FETs driven in Class A ● Linear power progression of 50 watts into 8 ohms, 100 watts into 4 ohms, and 200 watts into 2 ohms ● 300 W output into 1-ohm load (music signals) ● High damping factor of 1000 ● Strong power supply with massive high-efficiency toroidal transformer and large filtering capacitors ● Protection circuitry using MOS-FET switches





Integrated Amplifier Is First Entry in New Flagship Model Series

The E-800 is positioned above the E-650 as the new flagship model in the integrated amplifier lineup of Accuphase. The preamplifier section features the impeccable Balanced AAVA type volume control, while the power amplifier section is configured as an instrumentation amplifier using a six-fold parallel push-pull configuration of power MOS-FETs driven in pure Class A. The resulting quality is on a par with high-class separate type amplifiers. Operating as a simple and smart system, the E-800 realizes acoustic excellence that reaches to the very heart of the music.

Innovation - The leading edge of technology

■ Balanced AAVA type volume control

AAVA performs volume adjustment by making use of a combination of 16 current signals with different magnitude, thereby eliminating signal degradation and impedance fluctuations and maintaining high S/N ratio and low THD over the entire volume range. In the Balanced AAVA implementation of the E-800, two AAVA circuits are driven in a fully balanced configuration with a superior capability to eliminate external noise.



■ Balanced AAVA type volume control assembly

■ High-accuracy, high-rigidity volume sensor construction



The volume sensor mechanism developed by Accuphase in-house is built from a single massive aluminum block extruded and finished with utmost precision and complemented by other substantial materials, to ensure a silky smooth operation feel.

16 current switches 216 = 65,536 possible combinations Conversion into current with reighting stages (1/2 - 1/216) How Balanced AAVA works V-I Converte I-V Converter ersion of current into voltage Current values are added LEVEL DISPLAY I-V Converter Reconversion of current into voltage 16 current switches 2¹⁶ = 65,536 possible combinations

Sound quality - Simply aiming for the best

Formidable power amplification stage

The power amplification circuitry mounted directly on a large heat sink employs a six-fold parallel push-pull configuration of power MOS-FETs driven in Class A. Two identical units arranged on the left and right sides of the chassis deliver impeccable power in a linear progression for the two channels: 50 watts into 8 ohms, 100 watts into 4 ohms, and 200 watts into 2 ohms. The amplifier can even supply 300 watts into 1 ohm (music signals).

High damping factor brings out the full musical potential of loudspeakers Features such as Balanced Remote Sensing and MOS-FET switches help to realize a damping factor of 1000. Superb motion control lets every loudspeaker perform at its very best.

■ Power supply circuitry designed for optimum stability

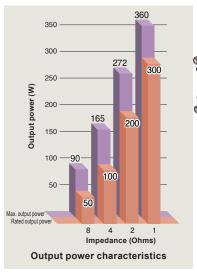
The strong power supply with massive high-efficiency toroidal transformer and two large 60,000 µF filtering capacitors ensures a stable current supply at all times.



Massive toroidal power transformer



Large filtering capacitors





Epoch-Making Fusion



of Skill and Technology





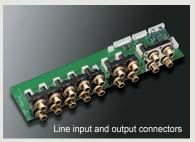
Advanced features

- Logic-control signal switching relays for shortest signal paths
- Five line level and three balanced inputs
- Line input and output connectors for a recorder
- Individual phase setting for each input
- Stereo signal can be switched to monophonic operation
- Left/right balance control also realized with Balanced AAVA ■ Convenient attenuator is useful for example when operating
- an analog record player or taking a telephone call

 Loudness compensator enhances low end
- presence at low volume levels
- Tone controls using summing active filters
- Power amplification stage employs instrumentation amplifier principle
- Current feedback amplification circuit topology assures excellent phase characteristics in high range
- Speaker output protection circuit guards against short-circuiting
- Protection circuitry using MOS-FET switches
- Two sets of large speaker terminals
- Preamplifier and power amplifier sections can be used separately
- Line level and balanced outputs of preamplifier section also support bi-amping connection
- Line level and balanced inputs of power section enable use as a power amplifier
- Dedicated headphone amplifier constructed with discrete components
- Two rear panel expansion slots allow use of option boards
- DAC input selector button for use with digital input board (when DAC-40 / DAC-50 is installed)
- Sampling frequency display for digital input signal (when DAC-40 / DAC-50 is installed)
- High-sensitivity LED bar graph power meters with 30-point indication to -50 dB

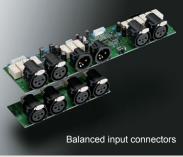


- Speaker output selector
- 2 Bass control
- 3 Treble control
- Tone control on / off button
- 6 Phase selector button
- 6 Mono / stereo selector button
- Description
 Descriptio
- 3 DAC input selector button
- MC / MM selector buttonDisplay mode selector button
- Balance control
- Preamplifier / power amplifier separator switch
- Recorder selector





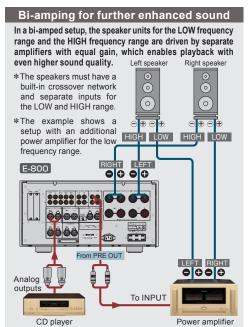


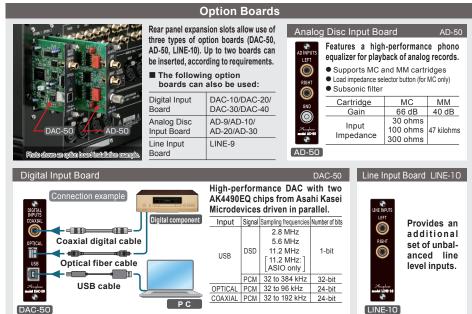


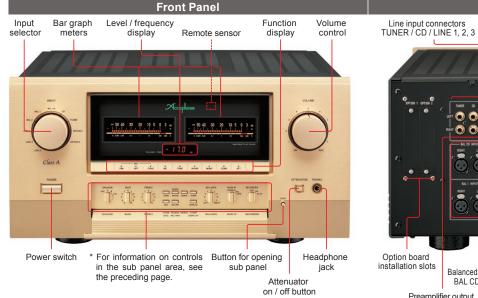


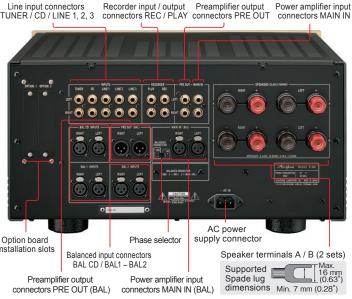












Rear Panel

E extstyle -800 Guaranteed Specifications [Guaranteed specifications are measured according to EIA standard RS-490.]

Continuous Average Output Power (20 – 20,000 Hz)	(both channels driven)	1-ohm load (music signals)		300 W
		2-ohm load		200 W
		4-ohm load		100 W
(' ', ', ', ', ', ', ', ', ', ', ', ', '		8-ohm load		50 W
THD	(both channels driven)	2-ohm load		0.05%
(20 – 20,000 Hz)	(DOUT CHAITITEIS GITVEIT)	4 to 16 ohm load		0.03%
Intermodulation Distortion		0.01%		
Frequency Response	HIGH LEVEL INPUT	*	20 - 20,000 Hz (+0, -0.5 dB)	
	MAIN IN	*	20 - 20,000 Hz (+0, -0.2 dE	
		At 1 watt output:	3 - 150,000 Hz (+0, -3.0 dB	
Damping Factor	1000	(with 8-ohm load, 50 Hz)		
Input Sensitivity, Input Impedance	Input	Input sensitivity		Input
		For rated output	For 1 W output (EIA)	Impedance
	HIGH LEVEL INPUT	100 mV	14.2 mV	20 kilohms
	BALANCED INPUT	100 mV	14.2 mV	40 kilohms
	MAIN IN, LINE	796 mV	113 mV	20 kilohms
	MAIN IN, BAL	796 mV	113 mV	40 kilohms
Output Voltage	PRE OUTPUT	LINE	796 mV*	50 ohms
and Impedance		BAL	796 mV*	50 ohms

	MAIN IN, BAL	796 mV	113 mV	40 kilohms
Output Voltage and Impedance	PRE OUTPUT	LINE	796 mV*	50 ohms
		BAL	796 mV*	50 ohms
: At rated continuous av	erage output			

0-1-	HIGH LEVEL INPUT → PRE OUTPUT			18 dB
Gain	MAIN IN → OUTPUT			28 dB
Tone Controls	Turnover frequency	Bass: 300 Hz	ass: 300 Hz ±10 dB	
	and adjustment range	Treble: 3 kHz	±10 dB	(20 kHz)
Loudness Compensator	+6 dB (100 Hz)			
Attenuator	-20 dB			
S/N Ratio	Input	Input shorted	(A weighting)	S/N ratio
		S/N ratio at rated output		(EIA)
	HIGH LEVEL INPUT	104 dB		97 dB
	BALANCED INPUT	104 dB		97 dB
	MAIN IN	119 dB		101 dB
Bar graph meters	Represents output voltage value (dB) using 30 points (with on / off switch)			
Output Load Impedance	(terminals A or B driven) 2 – 16 ohms (1-ohm load permissible with music signals only)			
	(terminals A and B driven simultaneously) 4 – 16 ohms (2-ohm load permissible with music signals only)			
Stereo Headphones	Suitable impedance: 8 ohms or higher			
Power Requirements	120 V, 220 V, 230 V AC (voltage as indicated on rear panel), 50/60 Hz			
Power Consumption	Idle		180 W	
	In accordance with IEC 60065		390 W	
Maximum Dimensions	Width 465 mm (18.31") x Height 239 mm (9.41") x Depth 502 mm (19.76")			
Mass	Net		36.0 kg (79.4 lbs)	
	In shipping carton		45.0 kg (99.2 lbs)	

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.

Supplied accessories

- AC power cord
- Remote Commander RC-240

