Parallel push-pull output stage delivers quality power: 90 watts per channel into 8 ohms. Current feedback circuit topology provides outstanding high-range phase characteristics. Logic-controlled relays for optimum signal routing. Tone control circuitry. Option boards allow digital signal input or high-quality analog disc reproduction.
The Accuphase E-200 series of integrated amplifiers is one of our core product ranges, renowned for technological excellence and impecable quality. The model lineup so far consisted of the E-210, E-210A, and E-211. With the E-212, we are now introducing a further refined version of the E-211, featuring latest circuit design topology and top-notch materials. Sound quality has reached an even higher level than before, presenting a superbly matched blend of performance, features, and musicality.

The power amplifier section of the E-212 boasts excellent phase characteristics and smooth reproduction thanks to the highly renowned current feedback principle. In the output stage, a parallel push-pull arrangement of high-current power transistors designed for demanding audio applications is used, allowing the amplifier to drive even very low impedance loads with ease. The preamplifier section has its own power supply to eliminate interaction with the power amp circuitry. Tone controls, loudness compensator and other features let the user tailor the sound if desired. Up to two tape recorders can be connected for recording and playback, and terminals for direct input of the digital signal for example (Multiple Delta Sigma) D/A converter allows more versatile. A digital input board with MDS addition, various options make the E-212 even more attractive. In the E-212, signal current rather than voltage is used for feedback. Figure 2 shows the operating principle of this circuit. At the sensing point of the feedback loop, the impedance is kept low and current detection is performed. An impedance-converting amplifier then converts the current into a voltage to be used as the feedback signal. Since the impedance at the current feedback point (current adder in Figure 2) is very low, there is almost no phase shift. Phase compensation can be kept to a minimum, resulting in excellent transient response and superb sonic transparency. Figure 3 shows frequency response for different gain settings of the current feedback amplifier. The graphs demonstrate that response remains uniform over a wide range.

Highly reliable logic-controlled relays

To realize the shortest possible signal paths, all switching is performed by logic-controlled relays arranged in an optimized layout. The hermetically sealed relays are high-quality types developed specifically for demanding communication applications. The contacts are twin crossbar types plated with gold for minimum contact resistance and outstanding long-term reliability.

Tone controls use summing active filters for highest sound quality

The tone control circuitry in the E-212 was specially designed with summing active filters. Figure 4 illustrates the operation principle of this circuit. The flat signal is passed straight through, and only when an adjustment is required, the characteristics are created at F1 and F2 and added to the signal, thereby producing the desired change.

Enjoy high-grade CD reproduction — enabled by option board with high-precision MDS type D/A converter digital input. Power amplifier uses current feedback principle for outstanding high-range phase characteristics and impecable sound quality. Wide-band power transistors in parallel push-pull configuration deliver 115 watts per channel into 4 ohms or 90 watts per channel into 8 ohms.
This design provides efficient control without degrading signal purity.

**Two pairs of speaker output terminals**

The oversize speaker terminals accept even very heavy-gauge speaker cable. The A/B switch-selectable outputs allow driving two pairs of loudspeakers, while the A+B position can be used for bi-wiring where the low and high frequency drivers of a speaker are connected to the amplifier with separate leads.

**Analog peak power meters**

The large analog power meters use logarithmic compression to cover a wide dynamic range. The peak hold function lets the user easily monitor the output level of the rapidly fluctuating music signal.

**Strong power supply with large power transformer and high filtering capacity**

The power supply is the source of energy for an amplifier. The E-212 features a massive 400 VA power transformer and two large electrolytic capacitors rated for 22,000 µF each. This assures ample reserves also for reproduction of demanding bass passages.
Specifications and design subject to change without notice for improvements.

Remarks

- The shape of the AC inlet, and plug of the supplied power cord depends on the voltage shown on the rear panel matches the AC line voltage in your area.
- The rear panel option board shown in photo is DAC-10.

GUARANTEED SPECIFICATIONS

<table>
<thead>
<tr>
<th>Input</th>
<th>Sensitivity</th>
<th>Input Impedance</th>
</tr>
</thead>
<tbody>
<tr>
<td>HIGH LEVEL INPUT</td>
<td>213 mV</td>
<td>22.5 mV</td>
</tr>
<tr>
<td>BALANCED INPUT</td>
<td>213 mV</td>
<td>22.5 mV</td>
</tr>
</tbody>
</table>

Gain

- HIGH LEVEL INPUT \(\rightarrow\) OUTPUT: 42 dB
- UNBALANCED/BALANCED

Tone Controls

- Turnover frequency and adjustment range
  - BASS: 300 Hz \(\pm 10\, \text{dB} (50 \, \text{Hz})\)
  - TREBLE: 3 kHz \(\pm 10\, \text{dB} (20 \, \text{kHz})\)

Loudness Compensation

- +6 dB (200 Hz) (Volume control setting -30 dB)

Attenuator

- -20 dB

Signal-to-Noise Ratio

<table>
<thead>
<tr>
<th>Input</th>
<th>Input shorted, IHF-A weighting S/N ratio at rated input</th>
<th>S/N ratio (EIA)</th>
</tr>
</thead>
<tbody>
<tr>
<td>HIGH LEVEL INPUT</td>
<td>110 dB</td>
<td>81 dB</td>
</tr>
<tr>
<td>BALANCED INPUT</td>
<td>92 dB</td>
<td>81 dB</td>
</tr>
</tbody>
</table>

Power Level Meters

- Logarithmic compression, peak reading meters with a dB scale calibrated for an 8-ohm load

Load Impedance

- 4 - 16 ohms

Stereo Headphones

- Suitable impedance: 8 - 100 ohms

Power Requirements

- 120 V/230 V (Voltage as indicated on rear panel)
- AC, 50/60 Hz

Power Consumption

- 30 watts idle
- 220 watts in accordance with IEC-65

Maximum Dimensions

- Width 475 mm (18-11/16”)
- Height 220 mm (8-3/4”)
- Depth 422 mm (16-5/8”)

Weight

- 18.9 kg (41.6 lbs) net
- 23.0 kg (50.7 lbs) in shipping carton

Supplied Remote Commander RC-23

- Remote control principle: Infrared pulse
- Power supply: 3 V DC (IEC R6 batteries x 2)
- Dimensions: 45 (W) \times 136 (H) \times 18 (D) mm
- Weight: 85 g (including batteries)

Specifications and design subject to change without notice for improvements.