• Pure Class A operation delivers 100 watts of quality power into 8 ohms
• Two totally identical power amplifier units driven in parallel
• 20-parallel push-pull arrangement of MOS-FET devices in output stage delivers linear high power progression to ultra-low 1-ohm impedance
• Input section configured as dual instrumentation amplifier
• Double MOS+ circuit and current feedback topology in amplification stage
• Support for bridged use of two A-250 units for even higher output power
• Strong power supply with massive high-efficiency toroidal transformer and large filtering capacitors

CLASS-A MONOPHONIC POWER AMPLIFIER
A-250
Witness a new dimension of musical expressiveness and bold presence

Ultra-low-noise design with unprecedented S/N ratio of 127 dB brings out a stunning wealth of detail. Semiconductor MOS-FET switches enable output circuitry without any mechanical contacts. Two pure class A power units arranged right and left are driven in parallel to deliver 100 watts into 8 ohms with impeccable quality. A damping factor in excess of 1,000 means that speaker control is nothing less than perfect. The massive A-250 represents a new pinnacle in power amplifier history. Encounter music like never before.

Technology development ahead of the curve

- **Fully balanced signal paths realized with dual instrumentation amplifier configuration**
  The A-250 features fully discrete circuit components in a dual configuration employing the latest instrumentation amplifier topology, allowing all signal paths throughout the power amplifier to be fully balanced. This not only eliminates any possible internal sources of noise or distortion as demonstrated by the outstanding performance ratings, it also makes the amplifier highly impervious to changes in ambient conditions. Consequently, operation stability and reliability which are crucial for a power amplifier have been dramatically enhanced.

- **Double MCS+ (Multiple Circuit Summing) in amplifier stage realizes highest-ever signal/noise ratio in an Accuphase component**
  The Double MCS+ configuration uses four circuits for the input signal, connected in parallel to keep distortion to a minimum and to further enhance S/N ratio and other parameters. The resulting level of sound quality is simply stunning.

- **Two totally identical power amplifier units driven in parallel**
  As shown in the circuit diagram of the amplifier section, the power amplification stage makes use of two completely identical power units, each with 10 N-channel and 10 P-channel power MOS-FETs connected in parallel. These units are arranged on the left and right side of the chassis and driven in parallel, resulting in a 20-paralleled configuration. This ensures a stable balance in terms of electrical operation, weight distribution, thermal dissipation and other aspects. The parallel drive approach achieves a total allowable power dissipation value of 5.2 kW, which in turn reduces the power load on each MOS-FET, allowing each device to operate effectively in its range of optimum linearity.
The Pinnacle of Technology

The Beauty of Tradition

The A-250 is built to excel in every respect. Carefully selected exquisite parts and materials are brought together with a focus on dependability and performance. Enclosed by the refined champagne gold faceplate and a massive top plate cut from ultra-thick aluminum, the amplifier exudes an atmosphere of solid elegance and dependability. The Pinnacle of a broad selection of parts and materials was chosen for the A-250, enabling it to operate effectively in its range of optimum linearity. The double MCS+ configuration utilizes four circuits for both the input and output stages and 20-parallel configuration. This ensures a stable drive in terms of electrical operation, weight distribution, and heat dissipation value of 5.2 kW, which in turn reduces the power load on each MOS-FET, allowing each device to operate effectively in its range of optimum linearity.

Two totally identical power amplifier units driven in parallel to the power amplification stage makes use of two full parallel P-channel power MOS-FETs. This not only eliminates any possible internal sources of feedback, but also ensures the best possible balance in terms of electrical operation, weight distribution, heat dissipation and 10 P-channel power MOS-FETs connected in parallel to keep input signal, amplifying the power MOS-FET circuit parameters. A minimal amount of NFB results in maximum improvement of feedback point is very low, there is almost no phase shift, and current feedback principle assures excellent phase characteristics. A-250 is the Pinnacle of Technology and the Beauty of Tradition.
Ultra-massive pure Class A monophonic power amplifier
A-250 is built to excel in every respect. Carefully selected exquisite parts and materials are brought together to realize leading-edge technology. Enclosed by the refined champagne gold faceplate and a massive top plate cut from ultra-thick aluminum with a beautiful hairline finish, the amplifier exudes an atmosphere of solid elegance and dependable power.
Advanced Features

- 20-parallel push-pull arrangement of power MOS-FETs delivers linear power progression: 800 watts (music signal) into 1 ohm, 400 watts into 2 ohms, 200 watts into 4 ohms, or 100 watts into 8 ohms.
- Strong power supply with massive high-efficiency toroidal transformer and two large 100,000 μF filtering capacitors.
- Printed circuit boards in power amplifier assembly made from glass cloth fluorocarbon resin with low dielectric constant and minimum loss.
- 4-stage gain selector (MAX, –3 dB, –6 dB, –12 dB) also minimizes residual noise.
- Two sets of oversize speaker terminals accept also spade lugs and banana plugs and allow bi-wiring connection.
- Semiconductor (MOS-FET) switches used for protection circuitry prevent contact problems and ensure long-term reliability. Eliminating mechanical contacts from the signal path also further enhances sound quality.
- Fully balanced input stage shuts out external noise interference.

OPERATION selector allows use of two A-250 units for bi-amping or bridged operation. Bridging allows upgrade to monophonic amplifier with even higher power, delivering 1,600 watts into 2 ohms (music signal), 800 watts into 4 ohms, or 400 watts into 8 ohms.

- Output level indication switchable between 5-digit numeric readout and 40-point LED bar graph with further improved readability. Hold time selector button also provided.
  - Meter operation on/off switch.
  - Digital power meter showing true power values, based on output current detected by a Hall element.
  - Power meter range selector and auto range function for automatic power tracking.
- Major parts in power supply and signal path are gold-plated.
### Example for bridged connection

Bridged operation of two A-250 units allows upgrading to a monaural amplifier with even higher power.

- For connecting the SPEAKER terminals to each other, use speaker cable of the same grade as for other speaker connections.
- OPERATION selector of left channel: (1) unit: BRIDGE NOR
- OPERATION selector of right channel: (2) unit: BRIDGE REV.

![Diagram of bridged connection](image)

### Example for bi-amping connection

In a bi-amped setup, the speaker units for the LOW frequency range and HIGH frequency range are driven by separate amplifiers, for optimum sound quality.

- The speakers must have a built-in crossover network and separate inputs for LOW and HIGH range.
- Set the OPERATION selectors of all four units to NORMAL.

![Diagram of bi-amping connection](image)

### Guaranteed Specifications

**A-250**

**Continuous Average Output Power (20 ~ 20,000 Hz)**

- Normal mode: 800 watts into 1 ohm, 400 watts into 2 ohms, 200 watts into 4 ohms, 100 watts into 8 ohms
- Bridged mode (2 units): 1600 watts into 2 ohms, 800 watts into 4 ohms, 400 watts into 8 ohms

**Total Harmonic Distortion**: 0.05% with a 2-ohm load, 0.03% with a 4- to 16-ohm load

**Intermodulation Distortion**: 0.01%

**Frequency Response**: At rated continuous average output: 20 ~ 20,000 Hz, +0 ~ −0.2 dB, 0.5 ~ 160,000 Hz, +0 ~ −3.0 dB

**Gain**: 28.0 dB (GAIN selector in MAX position)

**Gain Selection**: MAX, −3 dB, −6 dB, −12 dB

**Output Impedance**: Continuous output: 2 to 16 ohms, With music signal: 1 to 16 ohms

**Damping Factor**: 100

**Input Sensitivity**

- With 8-ohm load: 1.12 V for rated continuous average output
- For 1 watt output: 0.11 V

**Supplied accessories**

- AC power cord

### Additional Notes

- The specifications and appearance of this product are subject to change without notice.
- The shape of the AC inlet and plug of the supplied power cord depends on the voltage rating and destination country.

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