

## Class-A PRECISION INTEGRATED STEREO AMPLIFIER

E-600

● Revolutionary AAVA volume control ● Output stage with triple parallel push-pull power MOS-FETs ● Instrumentation amplifier principle for power amplifier input stage allows fully balanced signal transmission, complemented by MCS+ topology and current feedback amplification circuitry ● Logic-control relays for shortest signal paths ● Strong power supply with massive high-efficiency transformer and large filtering capacitors ● POWER IN button allows separate use of preamplifier and power amplifier sections ● Numeric indication of volume level





The Supreme Pure Class A Integrated Amplifier —— Riding the same crest as the 40th anniversary commemorative models, the E-600 features AAVA volume control and a triple parallel push-pull power MOS-FET arrangement. Power amplifier stage with latest instrumentation amplifier configuration realizes balanced signal transmission. MCS+ topology and current feedback principle assure excellent phase characteristics in high range. Massive power supply and low impedance design of output circuitry result in 150 watts per channel (into 1 ohm, with music signal) and a damping factor of 500.

Integrated amplifiers from Accuphase enjoy an excellent reputation for technical excellence and outstanding musical qualities, as demonstrated in an impressive range of models. In particular, the E-530, E-550, and E-560 integrated amplifiers operating in full class A have been praised widely both in Japan and overseas. Aiming for the even higher performance level set by separate type amplifiers, the E-600 makes full use of the sophisticated design technology accumulated by Accuphase over the years. Featuring a further refined AAVA type volume control, latest circuit topology, and parts and materials of the highest grade, the E-600 is the non-plus-ultra integrated amplifier imbued with the spirit of the 40th anniversary commemorative models.

AAVA (Accuphase Analog Vari-gain Amplifier) is a radically different approach that solves a slew of problems that beset conventional volume controls. The AAVA volume control in the E-600 employs the same high-rigidity volume sensor, extruded from a solid aluminum block and featuring an ultra-massive brass shaft, originally developed for the models C-2820/C-2420. Operating the knob provides an utterly smooth operation feel. Paired with a drastic improvement in S/N ratio through low impedance circuit design, the E-600 takes both performance and build quality to a new level.

The power amplifier block is configured with the latest instrumentation amplifier topology, which enables fully balanced signal transmission throughout. Together with MCS+ and the current feedback amplification principle, this makes for even better electrical characteristics. In the output stage, MOS-FET devices are arranged in a triple parallel push-pull configuration per channel. By keeping the impedance of the output circuitry extremely low, constant-voltage speaker drive can be realized, so that the signal remains completely unaffected even by wildly fluctuating speaker impedance. Accuphase's rich expertise and dedication to impeccable sound are manifested in the pure class A operation, resulting in an amplifier capable of bringing out even the most delicate and hidden nuances of the music. With its rich array of highly sophisticated technology geared for the ultimate sound, the E-600 is destined to become the new reference for integrated amplifiers.

- Power MOS-FETs in triple parallel configuration operating in pure class A deliver guaranteed linear power: 120 watts/channel into 2 ohms, 60 watts/channel into 4 ohms or 30 watts/channel into 8 ohms.
- Strong power supply with massive high-efficiency toroidal transformer and large filtering capacitors.
- Loudness compensator for enhanced bass at low listening levels.
- Dedicated headphone amplifier optimized for sound quality.
- Toroidal power transformer Versatile array of inputs with two balanced inputs to shut out external noise interference.
- Power amplifier stage features instrumentation amplifier configuration for balanced signal transmission. MCS+ topology and current feedback principle assure excellent phase characteristics in high range.
- Tone controls using summing active filters for optimum sound quality.
- Logic-controlled relays for signal switching assure high sound quality and long-term reliability.
- Two option board installation slots on rear panel provide further versatility. With AD-30 or AD-20 board, MC/MM switching on front panel is possible.
- DAC input selector button allows input selection when using the Digital Input Board DAC-40 With USB Port. Display of the sampling frequency of the locked digital signal is also possible. (Not supported when using DAC-30 / DAC-20 / DAC-10.)
- Individual phase setting supported for each input position.
- POWER IN button and preamplifier output and power amplifier input connectors allow independent use of both sections. Both line level and balanced connectors are provided.



- Newly developed bar graph meters allow monitoring of output power levels.
- Semiconductor (MOS-FET) switches used for protection circuitry prevent contact problems and ensure long-term reliability. Eliminating mechanical contacts from signal path also further enhances sound quality.
- Two sets of large-size speaker terminals accept also Y lugs.



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DAC

DAC input



AAVA (Accuphase Analog Vari-gain Amplifier) Volume Control

 Extruded from solid aluminum block – High-rigidity volume sensor construction Turning the volume knob on the front panel

Filtering capacitors

ed input/output connector

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ector button and LED indicate

causes the actual volume level position to be detected. The corresponding signal is sent to a CPU which in turn controls the action of the AAVA circuitry. The massive knob provides a smooth operation feel and further enhances

position detection accuracy.

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- Configuration with a total of 18 V-I converter amplifiers, paralleled for upper two units, reduces overall AAVA impedance to one half and results in lower noise input stage with five buffer amplifiers ensures powerful drive capability.
- No more left/right tracking differences or crosstalk.
- Amplifier display shows accurate gain as numeric indication.
- Attenuator and balance control also implemented by AAVA, eliminating additional circuitry.
- Volume control resolution: Combination of V-I converter amplifiers gives 65,536 possible volume steps.





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