



## AT-6012

### 6-zone 12-channel Amplifier

The AT-6012 is the perfect solution for those multi-room sound installations requiring the utmost in flexibility, reliability and audiophile quality sound. This 12-channel, 6-zone power amplifier incorporates the same legendary sound and design criteria as our other award winning amplifiers—without exception. The AT-6012 consists of six 2-channel modules and each zone’s volume (gain) can be remotely adjusted. While elegant in concept and design, the AT-6012 is rugged and will withstand the rigors of even the most demanding requirements. Critical components such as toroid transformers and circuit boards are manufactured and assembled in our own factory, guaranteeing consistent quality control. Features including DMC (Detachable Modular Component), Remote-Power-On and our Isolated Optical Protection Circuit are but a few of the advanced design concepts that add up to make S.A.E. amplifiers the best value in the industry. Circuitry in the AT-6012 is totally complementary from input to output using dual-differential input stages. Pre-drivers then drive the full-complementary output stage.

The following applies to all 12 channels being driven simultaneously with 8 ohm loads and an input sensitivity of 28dB gain unless otherwise specified.

Frequency Response	±0.1dB from 20Hz to 20kHz at 1 watt
Phase Response	+5 to -15 degrees from 20Hz to 20kHz at 1 watt
Signal-to-Noise Ratio “A-Weighted”	Greater than 100dB below rated FTC Full Bandwidth Power
Total Harmonic Distortion (THD)	Less than 0.05% at full rated FTC power from 20Hz to 20kHz
Intermodulation Distortion (IMD)	Less than 0.05% from 250 milliwatts to full rated FTC power
EIA 1kHz Output Power*	75 watts @ 8 ohms, 120 watts @ 4 ohms
FTC Full Bandwidth Output Power**	60 watts @ 8 ohms, 90 watts @ 4 ohms
Power Bandwidth FTC	+0-3db from 5Hz to 100kHz
Damping Factor	Greater than 400 from 10Hz to 400Hz
Crosstalk	Greater than 90dB from 20Hz to 20kHz
Gain	Voltage gain of 28dB
Slew Rate	30V/microsecond
Input Impedance	Nominally 28k ohms

Input Sensitivity	1.0 volts for full rated power.
Load Impedance	Safe with all types of loads. Rated for 4 to 16 ohms
DC Output Offset	Less than $\pm 5\text{mV}$
Transformer	2kVA
Chassis Dimensions (WHD)	17 x 7 x 16 inches (431.8 x 177.8 x 406.4 mm)
Rack Mount Panel (Optional)	Standard 19 inches (482.6 mm) rack mounting (EIA RS-310-B)
Weight	Net 73 lbs (33.18 kg) Shipping 82 lbs (37.27 kg)

*\*\*EIA 1kHz Power refers to maximum average power in watts at 1kHz with 0.005% THD and noise.  
\*\*FTC Full Bandwidth Power refers to maximum average power in watts from 20Hz to 20kHz with 0.03% THD and noise.*



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