C.E.C.

AMP6300

Feel Its Heartbeat–
Powerful and Beautiful

Top-of-the-Line 190W + 190W Power

Pure A Class Control/Power Amplifier The Perfect Balance between Clarity and Dynamism

CEC has created many unique amplifiers with fully balanced designs and the shortest possible signal path in circuitry through use of its proprietary DIMG (Digital Intelligent Gain Management) and LEF (Load Effect Free) technology. The AMP6300, CEC's newest high-power (190W+190W) control/power amplifier, offers dynamism and clarity in musical reproduction.

AMP6300

Front Panel

Rear Panel

Remote Control Unit

● Fully Balanced Circuit Design

The AMP6300 is a pure A class single ended amplifier offering high power coupled with excellent linearity and efficiency. The entire circuitry is fully balanced, from input signal entry to where the output meets the speaker terminal. This enables a radical reduction in noise and distortion, and a major improvement in sound quality. Furthermore, the left and right signals are processed through independent, dedicated circuitries to achieve channel separation and high-quality stereo imaging.

● CEC's Original Circuitry

The AMP6300, similarly to other existing CEC amplifiers, takes a minimalist approach by featuring only an input selector and gain management control, and omitting the preamp section. Its DIGM (Digital Intelligent Gain Management) system adjusts volume digitally by switching metal-film resistors with a unique array of bipolar class-A switches. It digitally recalibrates the amplifier gain in 66 steps, without dividing and downgrading the input signal. This DIGM volume control enables digital adjustment of the left and right output balance, with no dilution to the input signal and without extending the signal path, in 1dB increments up to +10dB.

● Advanced LEF Circuitry

The AMP6300's state-of-the-art LEF circuitry, free of negative feedback circuitries that affect the sound signal, achieves high output and high quality audio reproduction unaffected by characteristic faults on the transistor side. The newest version of the LEF further improves stability and sound quality.

● 190W+190W (8Ω) Output Power

A 600W toroidal transformer combined with over 100000μF of low inductivity energy storage makes the AMP6300 far more powerful than its predecessor. The AMP6300 achieves a very high 190W+190W(8Ω) output power.

● 16×15A Power Transistors

The AMP6300 is equipped with sixteen 15A power transistors to maintain high power even under complex loads, improving thermal reliability and ensuring safe operation at all times.

● Two Balanced and Three Unbalanced RCA Input Connections

The AMP6300 features two balanced XLR input connections, enabling connection to external units with balanced outputs, such as high-quality CD players. System integrity is maintained for RCA connections by converting the unbalanced signal to a balanced signal at the point of entry to the amplifier. Top-of-the-line custom made parts are used for the RCA terminals.

● Two-stage Input Sensitivity

The AMP6300 offers a 6dB-gain option independently for each input connection, for balancing output volumes between different sources. This minimizes the volume adjustments required when alternating sources between CD/DVD players and 0dBU tuners/phonograph preamplifiers.

● Internal Temperature Control System

The AMP6300 monitors its internal temperature with a sensor and automatically controls airflow within its cooling system, with help from its proprietary, virtually noise-free ferromagnetic bearing fan, maintaining thermal conditions optimal. A large heatsink which covers 30% of its base contributes to create the airflow. This cooling system is digitally controlled and keeps the amplifier temperature within safety parameters.

● Alphanumeric VF-Display

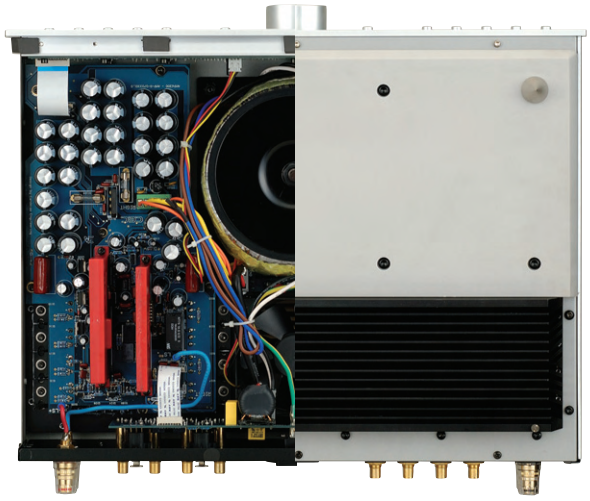
A wide VF-display conveys functional information including volume, L/R balance and internal temperature.

● Mixed Material Enclosure

The AMP6300 uses steel for its housing, aluminum for its top and front panels, and "Acoustone", a hybrid ceramic material which reduces mechanical resonances. Its hybrid structure maximizes effectiveness in reducing mechanical vibrations.

● Deluxe Aluminum Extruded Remote Control Unit

All functions, except power ON/OFF, are controllable by the remote control unit.



Left and right signals are processed through independent

A large heatsink

Specifications

Audio Unit	Output Power	190W+190W (8Ω), 256W+256W (4Ω)
	Frequency Response	1.5Hz - 300kHz, +0dB/-3dB, 1W
	S/N Ratio	95dB (A-weighted, 1W)
	THD	0.008%, (1W)
	Dumping Factor	320 (8Ω, 10W)
Input/Output	Input Terminals	2 × balanced XLR, 3 × unbalanced RCA
	Input Gain	0dB, +6dB
	Output Terminals	Speaker Output × 1, REC OUT (RCA) × 1
General	Power Supply	AC 120/230V, 60/50Hz (Specified on the rear panel)
	Power Consumption	Min.75W, Max. 600W
	External Dimensions	approx. 435(W)×373(D)×125(H) mm (incl. legs and terminals)
	Weight	approx. 16kg
	Accessories	AC power cord, remote control unit, Owner's Manual
	Color	Silver

Safety Precaution Be sure to operate this product property once you have thoroughly read the owner's manual.

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http://www.cec-web.co.jp