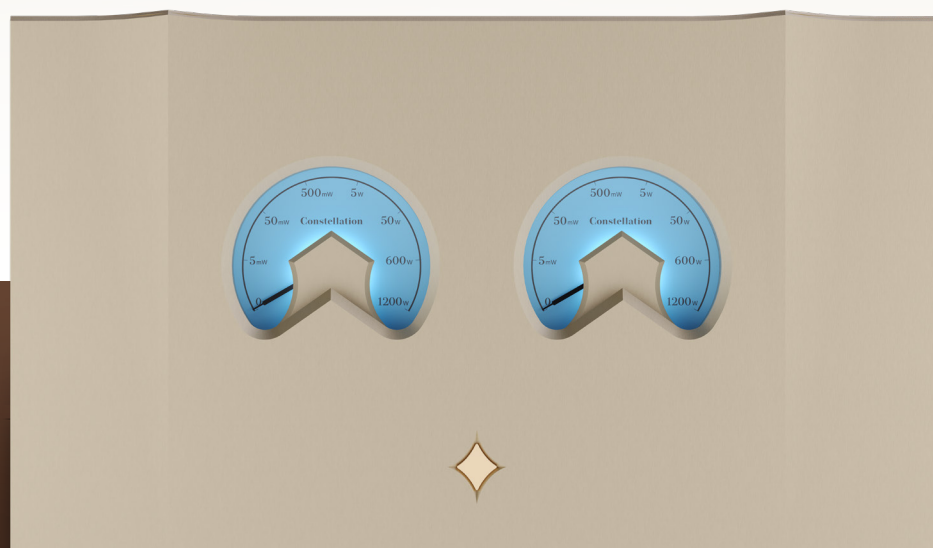


Performance 2

Stereo and Monoblock Amplifiers

The Performance 2 Stereo and Monoblock Amplifiers represent a breathtaking evolution of their predecessors, delivering 600 watts per channel in stereo and 1,200 watts in monaural configuration. Featuring large meters and far greater output, they eclipse not just the original Performance amplifiers in every parameter, but the outgoing Reference series as well—long the Constellation benchmark until now.



Performance 2 *Stereo and Monoblock Amplifiers*



The Input Stage

The Line Stage Gain Module input stage utilizes hand-matched, low-noise transistors combined with a servo circuit that corrects any signal balance inconsistencies. The Constellation Direct XLR input removes one amplification stage from the signal path for less complexity and even greater musicality with these Performance 2 flagships.

The Power Supply

Performance 2 elevates sound to a new level with our revolutionary Switch-Mode Power Supply (C-SMPS), the best amplifier power supply ever created. Power Factor Correction (PFC) technology provides stable power at any AC supply voltage—worldwide. Voltage and current are always in phase regardless of speaker load, power over the previous version is increased by 20 percent, and noise is more than 20 dB lower than a typical linear power supply.

The Circuit

The Performance 2 Stereo and Monoblock Amplifiers employ balanced configuration, using

separate amplifier circuits for the positive and negative halves of the audio signal. Other balanced amplifiers use N-type transistors for the positive half of the circuit and P-type transistors for the negative half. Our Balanced Bridged configuration uses only N-type transistors, so both signal halves pass through exactly the same circuitry—with even the softest musical details preserved.

A New Reference

Both Performance 2 amplifiers express the very pinnacle of amplifier performance, further refining the proven circuits and core design philosophy that are the Constellation design ethos. Through a combination of Constellation's innovative audio circuits and revolutionary C-SMPS power supply, the Performance 2 amplifiers achieve truly astounding sonic results, eclipsing that of their predecessors and even the outgoing Reference series. Music lovers seeking an unrivaled listening experience will be amply rewarded.

Specifications

Stereo Amplifier

Inputs: 4 XLR (2 Direct), 2 RCA

Max power @ 8 Ω (0.1% THD+N, 20 Hz-20 kHz): 600 WPC

Max power @ 4 Ω (0.1% THD+N, 20 Hz-20 kHz): 1,125 WPC

Monoblock Amplifier

Inputs: 2 XLR (1 Direct), 1 RCA

Max power @ 8 Ω (0.1% THD+N, 20 Hz-20 kHz): 1,200 W

Max power @ 4 Ω (0.1% THD+N, 20 Hz-20 kHz): 2,000 W

Frequency response: 10 Hz-80 kHz +/- 0.05 dB

Gain, direct input: 12 dB

Gain, non-direct input: 25.2 dB

AC power draw, standby: <0.5 W

AC power draw, idle: 135 W

AC power draw @ max power into 8 Ω : 1,300 W

AC power draw @ max power into 4 Ω : 1,970 W

Power factor, partial power: 0.98

Power factor, full power: 1.0

Damping factor: >160

Signal-to-noise ratio, DC-90 kHz ref 1 V: >100 dB, A-weighted

Signal-to-noise ratio, DC-90 kHz ref full power: >115 dB, unweighted

Signal-to-noise ratio, DC-90 kHz ref full power: >125 dB, A-weighted

Output impedance: 0.05 Ω

Weight: 90 lbs / 40.9 kg

Dimensions: 18.75 x 11.25 x 22.5 in / 47.6 x 28.6 x 57.2 cm (WHD)

Specifications subject to change.



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C-Switch-Mode
POWER SUPPLY
Precise, Consistent Power Delivery