Inspiration 2

Stereo and Monoblock Amplifiers

The Constellation Inspiration 2 Stereo and Monoblock Amplifiers distill the power and passion of the Revelation 2 amplifiers in a more compact chassis. Their sound has been taken to a new level with C-SMPS, the best amplifier power supply ever created. Our Balanced Bridged technology employs single-ended amplifier modules to achieve impressive output, resulting in ample power to drive any speaker, with the subtlety of a small amplifier.

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The Input Stage

The same Line Stage Gain Module input stage found in Constellation's top amplifiers utilizes hand-matched, low-noise transistors combined with a servo circuit that corrects for any signal balance inconsistencies. The Constellation Direct XLR input removes one amplification stage from the signal path for less complexity and more musicality.

The Power Supply

Constellation's Switch-Mode Power Supply (C-SMPS) rises above the century-old technologies that hinder the performance of traditional amplifiers, with over 20 dB less noise than a typical linear power supply. 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, while power over the previous version is increased by 20 percent.

The Circuit

The Inspiration 2 Stereo and Monoblock Amplifiers employ a balanced configuration, with 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.

The Result

Both Inspiration 2 amplifiers are essentially distilled versions of our larger models, sharing the same circuits and core design philosophy. In fact, they're perfect examples of why Constellation's approach to amplification works so well. Instead of redesigning the amplifiers to make them smaller, our engineers simply reduced the number of modules to deliver the desired power output.

Through a combination of Constellation's innovative audio circuits and revolutionary C-SMPS power supply, the Inspiration 2 amplifiers achieve astounding sonic results. And while smaller in stature, their musicality and emotion remain undiminished.

Specifications

Stereo Amplifier
Inputs: 4 XLR (2 Direct), 2 RCA
Max power @ 8 Ω (0.1% THD+N, 20 Hz–20 kHz): 240 WPC
Max power @ 4 Ω (0.1% THD+N, 20 Hz–20 kHz): 420 WPC
Input sensitivity @ max power at 0.1% into 8 Ω: 15 V direct i/p, 3 V non-direct
Input sensitivity @ max power at 0.1% into 4 Ω: 12.5 V direct i/p, 2.6 V non-direct
Monoblock Amplifier
Inputs: 2 XLR (1 Direct), 1 RCA
Max power @ 8 Ω (0.1% THD+N, 20 Hz–20 kHz): 500 W
Max power @ 4 Ω (0.1% THD+N, 20 Hz–20 kHz): 1,000 W
Input sensitivity @ max power at 0.1% into 8 Ω: 17.8 V direct i/p, 3.5 V non-direct
Input sensitivity @ max power at 0.1% into 4 Ω: 16 V direct i/p, 3.5 V non-direct
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: <0.25 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: 1,500 W
Power factor, partial power: 0.98
Power factor, full power: 1.0
Damping factor: >80
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: 0.1 Ω
Weight: 43 lbs / 19.5 kg
Dimensions: 17 x 8.5 x 19 in / 43.2 x 21.6 x 48.3 cm (WHD)

Specifications subject to change.

Constellation

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C Switch-Mode
POWER SUPPLY
Precise, Consistent Power Delivery

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