

Since 1984



# Boulder

# 1163

**Stereo  
Power Amplifier**



## Welcome

When one thinks about Boulder, images of our large and heavy amplifiers immediately come to mind.

The 1161 Changed this mentality by showing that Boulder can do more than just design monolithic amplifiers.

The 1163 Stereo Power Amplifier refined what we thought was possible in a chassis that can be shipped in a carton and fits in a conventional audiophile rack.

## Concept

The 1163 Stereo Power Amplifier takes what we learned by designing the 1151

Mono Power Amplifiers and puts it into a single stereo chassis.

This makes the most compact stereo amplifier in the 1100 Series that takes advantage of the Class A Bias scheme with the Smart Current Output Stage.

## Mechanical Design

The 1163 is designed, machined, assembled, and all boards are populated under one roof in our dedicated 23,000 square foot facility in Louisville, CO

Like the rest of the 1100 Series the 1163's front panel is adorned with the same topographical map of Flagstaff Mountain, only 30 miles from our factory.

Every panel in the 1163's casework is precisely machined from solid blocks of aluminum.

The top panel is damped during the assembly to prevent mechanical resonance from affecting the audio.

We pot, encase, and damp the transformer to keep any mechanical hum or vibration from interfering with your enjoyment of the music passing through.

The color, size, and aesthetics of the 1163 make it conservative enough to fit with nearly any decor, blending seamlessly into your listening space.

## Inside the 1163

Externally, the 1163 may look very similar to its predecessor, but internally, it is completely different.

All of the boards inside the 1161 were modified and improved to become the 1163.

The 1163's extremely low output impedance eases the speaker through even the most difficult passages of music. This guarantees that the 1163's sonic characteristics will never change, regardless of which speaker you connect it to.



The 1163 accomplishes impressive neutrality and musicality with a combination of balanced inputs and outputs reducing noise to inaudible levels.

The output section makes use of many filter capacitors instead of fewer large, capacitors to deliver faster dynamic impact. As in all other 1100 Series power amplifiers, the 1163 uses two stages. The first stage provides most of the voltage gain, allowing the output stage to focus on delivering high current to the speaker.

### Outside the 1163

Some loudspeakers demand very high power and control. The 1163 provides

high amounts of current, making even the most difficult speaker perform to its fullest potential.

The key to controlling a speaker, regardless of the delicacy or complexity of the music, is the ability to deliver undistorted power from a noise-free background into a reactive load.

### Smart Current Output Stage

The Boulder 1163 uses a new bias scheme for the output stage. This stage is more advanced than anything done previously in power amplifiers, regardless of brand.

Known as Smart Current this new circuit gives Class A performance without the drawbacks of traditional Class A designs.

Traditional Class A Amplifiers become overly hot over time. Boulder's Smart Current output stage monitors the output current drawn by the speaker and adjusts as needed.

Boulder's Smart Current Output Stage continuously adjusts for variances due to the speaker's frequency-dependent load impedance all through analog circuitry. This effectively eliminates all of the crossover distortions that are a result of the transition from one polarity to the other.

Boulder's Smart Current Output Stage increases efficiency, sonic performance, reliability, and longevity of the 1163 Stereo Power Amplifier by reducing the negative effects of typical Class A designs.

### 40 Years of Experience

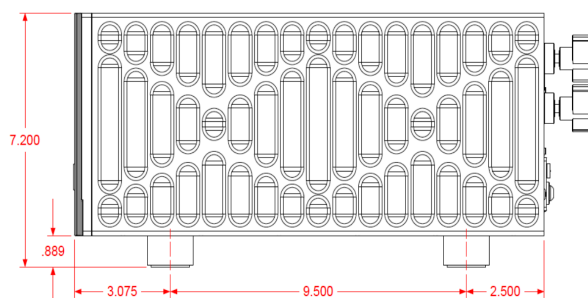
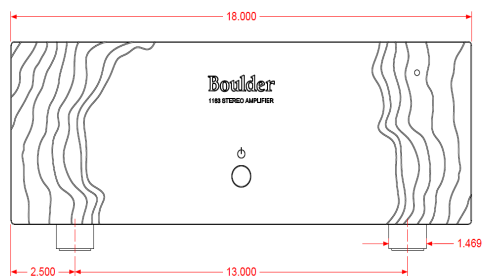
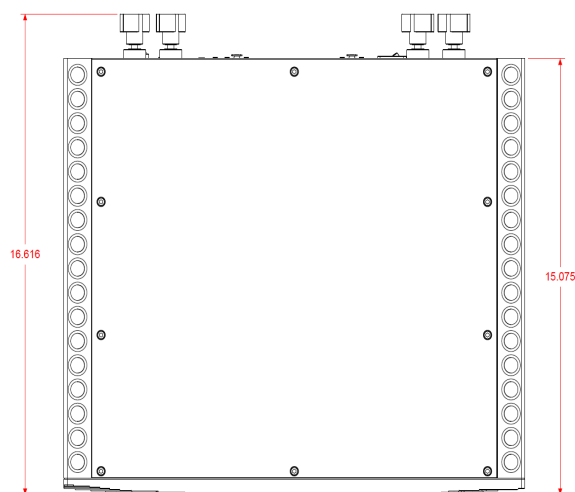
Boulder's 40 years of experience in amplifier design is evident in every aspect of the Boulder 1163.

You can rest easy knowing that your 1163 Stereo Power Amplifier will last a lifetime because we have complete and total control of the design, build and assembly processes. We have also implemented numerous quality control checks, not only for each unit but, for each board that finds a home inside any one of our models.

We encourage you to go listen for yourself. Ask your nearest authorized Boulder dealer or distributor if they have an 861 Stereo Power Amplifier that they can audition for you!







## Technical Specifications

Continuous Power, 8 Ohms	150W
Peak Power, 8 Ohms	200W
Peak Power, 4 Ohms	325W
Peak Power, 2 Ohms	550W
THD, 8 Ohms 150W	0.002%, 20kHz: 0.01%
THD, 4 Ohms 150W	0.002%, 20kHz: 0.01%
THD, 2 Ohms 150W	0.003%, 20kHz: 0.02%
Equivalent Input Noise (EIN), 20 kHz, BW	2.2 $\mu$ V
Magnitude Response, 20 Hz to 20 kHz	+0.00, -0.04 dB
Frequency Response, -3 dB	0.015 Hz & 150 kHz
Voltage Gain	26 dB
Input Impedance	50k $\Omega$ Balanced 25k $\Omega$ Unbalanced
Balanced Analog Inputs	Balanced 3 pin XLR
Outputs	.25" (6 mm) Binding Posts
Power Requirements (Country Specific configured)	
100V, 120V, 240V 50-60Hz	
Power Consumption	>10W Standby 110W Idle

All measurements are taken at 120v, Specifications are subject to change without notice or obligation

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