The Bel Canto Design e.One Series is a perfect example of what can be accomplished when elegant engineering and depth of empirical knowledge are combined. All components are selected for high sound quality, precision, technical performance, and material quality. Bel Canto’s circuit designs and component quality will provide superb performance and years of listening satisfaction.

S300/M300
Power Amplifiers

TABLE OF CONTENTS

Bel Canto Design Statement ................................................................. 3
Design Features .................................................................................. 4
Unpacking ............................................................................................ 5
Initial Setup and Operation ................................................................. 6, 7, 8
Specifications .................................................................................... 9
Bel Canto Design audio products are designed to bring you closer to the power and beauty of your music. Our goal is simply to provide the most expressive and powerful musical experience outside of the live event and bring some of the greatest musicians and their performances into the intimacy of your home. We design equipment which is easy to own, use and live with. We fully expect that your enjoyment and appreciation of your Bel Canto purchase will grow as you live with it and experience all of the fine audio subtleties that emerge.

Bel Canto Design
Warm Up
The amplifier's sonic performance will start to stabilize after approximately 100 hours of continuous power up. We recommend that the amplifier remains powered for optimum performance.

Design Features

The e.One Series S300/M300 are single and dual-mono amplifiers designed to deliver up to 150 watts into 8 ohm loads and 300 watts into 4 ohm loads. Each amplifier contains its own dedicated regulated power supply for all amplifier stages, including the output section. This is achieved in a compact and elegant product through our adaptation of the latest analog switching amplifier and power supply technology from the ICEpower group.

This technology brings unprecedented performance gains in absolute musical performance. The regulated power supply and fully balanced analog switching amplifier architecture liberates your loudspeakers to perform at their best. The ultra-low noise operation insures that the most subtle of musical expressions comes through with palpable clarity.

The superb measured performance insures that harmonic and intermodulation distortion don’t interfere with the pristine beauty or raw power of the musical message.

The e.One series amplifiers from Bel Canto insure that you fully experience the musical intensity and beauty of your favorite artists.

Warm Up
The amplifier’s sonic performance will start to stabilize after approximately 100 hours of continuous power up. We recommend that the amplifier remains powered for optimum performance.
Warning!

Do not connect power to this amplifier yet!

This amplifier, like any electrical component, can be dangerous and cause injury unless correct handling procedures are observed and used. Before powering this preamplifier it is necessary to read and follow proper procedures concerning its setup and use.

Any tampering of internal parts will immediately void your warranty.

USA customers: For Warranty Coverage complete and mail the Owner's Registration Papers immediately.
S300 Rear Panel Connections

Never Connect Either the Positive or Negative Speaker Output to Any Ground Contact!
Connecting any Speaker Output on the S300 to Ground will cause the amplifier to go into protection and could damage the amplifier and void the warranty.

1) Power Switch: Power is on when the switch is toggled to the I position and off in the O position.

2) Input Connections and RCA/XLR switch: When using RCA cables for the input insure that the RCA/XLR switch is pressed in to the RCA position. When using XLR cables insure that the switch is out in the XLR position. This will generally insure ideal grounding and minimize ground noise from interfering with the audio signal.

3) Output Connections: Attach your loudspeakers to the output connectors, insure that the polarity of each speaker is correct and the same so that no phase inversion can occur. Never Connect Either the Positive or Negative Speaker Output to Any Ground Contact!

4) IEC power cord jack: Connect a heavy gauge power cord from this jack to the wall power supply. Note the power setting indicated on the back of the amplifier before connecting the power.

When all connections to and from the amplifier have been made then double check everything, insure that the pre-amplifier is powered on and set to a Mute setting and power on the S300.
M300 Rear Panel Connections

Never Connect Either the Positive or Negative Speaker Output to Any Ground Contact!
Connecting any Speaker Output on the M300 to Ground will cause the amplifier to go into protection and could damage the amplifier and void the warranty.

1) Power Switch: Power is on when the switch is toggled to the I position and off in the O position.

2) Input Connections and RCA/XLR switch: When using RCA cables for the input insure that the RCA/XLR switch is pressed in to the RCA position. When using XLR cables insure that the switch is out in the XLR position. This will generally insure ideal grounding and minimize ground noise from interfering with the audio signal.

3) Output Connections: Attach your loudspeakers to the output connectors, insure that the polarity of each speaker is correct and the same so that no phase inversion can occur. Never Connect Either the Positive or Negative Speaker Output to Any Ground Contact!

4) IEC power cord jack: Connect a heavy gauge power cord from this jack to the wall power supply. Note the power setting indicated on the back of the amplifier before connecting the power.

When all connections to and from the amplifier have been made then double check everything, insure that the pre-amplifier is powered on and set to a Mute setting and power on the M300.
What to do if there is hum or ground noise:

1) Check that the RCA/XLR switch is in the correct position for the type of connection being used.

2) Insure that the preamplifier or any source components are not producing hum by setting the preamplifier to a MUTE or Standby setting.

3) The design of the amplifier reduces the chance for ground loop induced hum but we still recommend that you use shorter interconnect cables to the preamplifier and connect all power cables to a common outlet box or power conditioner unit to reduce the possibility for ground current noise being induced into the audio signal path.

Front Panel Indicator Lamp

The small blue LED lamp indicates that the power is connected to the amplifier and that the power switch is in the ON position. If the amplifier detects a fault or short circuit in the output connections then it will go into a protection mode and stop playing. If this occurs toggle the power switch to the OFF position and check the speaker cabling to insure that no speaker output is either shorted together or connected to a ground. When you are certain that the loudspeaker cabling is correct then power the unit ON again and insure that the Blue lamp is lit and that music will play.

Fuse Protection

There is internal fuse protection in the amplifier. If the power switch is in the ON position, the power cable is connected to a functioning power outlet at the correct voltage and the Blue lamp is not lit, this indicates that the internal fuse may have blown. If this occurs contact your dealer, distributor or Bel Canto for service. There are no user replaceable fuses or other parts. Opening the chassis will void your warranty.
## S300 Power Amplifier

**Power Output:** 300W/channel into 4 ohms, 150W/channel into 8 ohms

**Minimum Load:** 4 ohms

**Frequency Response:** +/-0.5dB 20Hz-20KHz, all loads

**THD+N:** 0.01%, 1W, 1KHz, 4 ohms

**IMD (CCIF):** 0.002%, 1W, 14.15KHz, 4 ohms

**Output noise:** 90uVRMS A-weighted 10Hz-20KHz

**Voltage gain:** 27dB (single ended or balanced input)

**Damping factor:** >1000

**Output Impedance at 100Hz:** <8 milliohms

**Dynamic Range:** 111dB

**Input Voltage for Max Output:** 1.5Vrms

**Input connections:** Single-ended RCA or balanced XLR

**RCA input impedance:** 10Kohms

**Balanced input impedance:** 20Kohms

**Output connections:** 2-sets WBT 5-way safety binding posts

**Standby Power:** 10W

**Size:** 8.5"x3"x12", 216mmx76x305mm (WxHxD)

**Weight:** 9lbs, 4Kg

Features and specifications are subject to improvements and changes without prior notice.

## M300 Power Amplifier

**Specifications:**

**Power Output:** 300W into 4 ohms, 150W into 8 ohms

**Minimum Load:** 4 ohms

**Frequency Response:** +/-0.5dB 20Hz-20KHz, all loads

**THD+N:** 0.01%, 1W, 1KHz, 4 ohms

**IMD (CCIF):** 0.002%, 1W, 14.15KHz, 4 ohms

**Output noise:** 90uVRMS A-weighted 10Hz-20KHz

**Voltage gain:** 27dB [single ended or balanced input]

**Damping factor:** >1000

**Output Impedance at 100Hz:** <8 milliohms

**Dynamic Range:** 111dB

**Input Voltage for Max Output:** 1.5Vrms

**Input connections:** Single-ended RCA or balanced XLR

**RCA input impedance:** 10Kohms

**Balanced input impedance:** 20Kohms

**Output connections:** WBT 5-way safety binding posts

**Standby Power:** 5W

**Size:** 8.5"x3"x12", 216mmx76x305mm (WxHxD)

**Weight:** 9lbs, 4Kg

Features and specifications are subject to improvements and changes without prior notice.