

# PLINIUS

THE HEART OF MUSIC

SB-301  
POWER  
AMPLIFIER



# SB-301 POWER AMPLIFIER

The Plinius SB-301 is our answer to the perennial power versus sonic quality debate.

We were approached by a Californian company engaged in the manufacture of large home theatre speaker systems, and asked to submit an amplifier for their appraisal. Two important specifications had to be adhered to – the amplifier had to sound good, and the amplifier had to sound good at 120dB!

We sent them an SA-103 and goal one was achieved. The sound quality was better than anything experienced previously, however under rigorous testing they found that the SA-103 would only deliver 115dB prior to clipping.

The Plinius design team decided that we needed a 300 watt, SA-103 package and this is exactly what the SB-301 is. The basic circuit topology is the same as the SA-103 but with a larger power supply and more rugged output stage. The number of output devices is double that of the SA-103 and the two toroidal transformers are larger.

The SB-301 operates in Class AB bias and as such the standing temperature is lower than that encountered in our SA series designs.

The construction of the SB-301 is to the same extreme of quality as the rest of the Plinius line and offers the rugged dependability of the SA series designs.

It is widely believed that as amplifier power increase the sonic ability diminishes. Clearly the SB-301 dispels this notion and will deliver all the dynamics, finesse and transparency that Plinius is renowned for.

The SB-301 is at home in the most demanding music or theatre applications and will perform flawlessly under the most arduous conditions.



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## PRODUCT SPECIFICATIONS

### POWER

310 watts continuous per channel into 8 ohms. 470 watts RMS per channel into 4 ohms. Both channels driven from 20Hz to 20kHz at less than 0.2% total harmonic distortion

### FREQUENCY RESPONSE

20Hz to 20kHz +/-0.2dB  
-3dB at 70 kHz

### DISTORTION

Typically <0.05% THD at rated power  
0.1% THD and IM worst case prior to clipping

### CURRENT OUTPUT

100A short duration peak per channel.  
Fuse protected

### RISE TIME

Typically 5µs

### PHASE RESPONSE

+0° at 20Hz and -14° at 20kHz

### HUM AND NOISE

100dB below rated output 20Hz to 20kHz,  
A weighted

### INPUT IMPEDANCE

47k ohms

### GAIN

RCA Inputs: 32dB  
Balanced Inputs: 38dB

### POWER/CURRENT CONSUMPTION

1100VA  
1.6A (370W) Class AB Idle  
0.2A (46W) Standby

### DIMENSIONS

Height: 220mm (8.75")  
Width: 500mm (19.75")  
Depth: 455mm (18")  
Weight: 38kg (83lb)

Also available in a reduced width for rack installations.

### COLOUR

Available in silver or black

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