

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 about 12 months ago by a Californian company engaged in the manufacture of large home theatre speaker systems, and asked to submit an amplifier for their appraisal.

There were two important specifications that had to be adhered to, a) the amplifier had to sound good, and b) the amplifier had to sound good at 120dB!

We sent them an SA-102 and goal one was achieved. The sound quality was better than anything experienced previously, however under rigorous testing they found that the SA-102 would only deliver 115dB prior to clipping.

We then sent an SA-250/4. Goal a and b were surpassed but the SA-205/4 is very large and a little too expensive for the multi-amplifier applications they had in mind.

Back to square one and some head scratching. Our design team decide that we needed a 300-watt, Sa102 package and this is exactly what the SB-301 is. The basic circuit topology is the same as the SA-102 but with a larger power supply and more rugged output stage. The number of output devices is double that of the SA-102 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.



## Specifications For PLINIUS SB-301

### Power:

310 watts continuous per channel into 8 Ohms  
Both channels driven from 20Hz to 20kHz

### Frequency Response:

20Hz to 20kHz  $\pm 0.2$ dB  
-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 5 $\mu$ S

### Phase Response:

+0° at 20Hz and -14° at 20kHz

### Hum and Noise:

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

### Input Impedance:

47,000 ohms

### Gain on RCA Inputs:

32dB

### Gain on Balanced Inputs:

38dB

### Dimensions:

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

Also available in a reduced width format for rack installations.

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