

# marantz® STEREO POWER AMPLIFIER

SM-17



Black available

## SM-17 Stereo power amplifier

The Marantz SM-17 Premium Series stereo power amplifier is a no-compromise audio component designed and engineered to provide extraordinary sonic performance. The SM-17 is constructed using only the highest-quality components, meticulously selected for optimum sonic purity. The Marantz SM-17's appearance is as its sound quality, available in black or gold finish with a clean, uncluttered front panel that combines modern styling with a touch of "retro" elegance. The SM-17 is designed to complement Marantz's PM-17mkII'M' (KI), to bring out an even better fidelity, resolution and musicality in either a bridged or bi-amping setup.



P R E M I U M S E R I E S

because music matters

## Features:

- Current Feedback amplification
- BTL switch mode
- Super Ring transformer
- HDAM
- WBT terminals
- Linear Drive Power Supply (LDPS)

## Benefits:

- Controlled and solid drive of even the most demanding loudspeakers
- Raising the output power and increasing stability by bridging two amplifiers into one amplifier
- Ultra low vibration and leakage flux keep the signal sharp and minimises internal electro magnetic distortion
- High slew rate and superb dynamics characterise the unique Marantz HDAM output stages
- Ultimate audio transfer from premium class speaker terminals
- Marantz designed power supply to give stable but responsive power delivery

## Technological glossary:

### Extendable high-end power

Designed to make the perfect match with the PM-17mkII'M' and PM-17mkII'M' KI, the SM-17 is the perfect solution for the ones who are looking for a solid power amplifier with the best musical performance. The SM-17 can be switched into BTL-mode to increase the power dramatically. Multiple SM-17's can be used in the total set-up to form the ultimate power amplifier combination for your loudspeakers, even when they are difficult to drive.

### Current Feedback amplification

Unlike conventional voltage feed back amplification, the Current Feedback amplification makes the power amplifier insensitive to difficult loudspeaker loads.

### BTL switch mode

Marantz designs their amplifiers to have robust power outputs. For the very demanding listener Marantz offers the ability to extent with separate stereo power amplifiers. These amplifiers can be used in BTL mode. When operating in BTL, the amplifiers operates as a mono amplifier with more then twice the power rating. By offering the normal mono signal to the left channel and the inverted signal to the right channel of the power amplifier, the difference signal represents the amplified monaural signal.

### HDAM

Only the best is good enough! In order to use equipment from several brands together in one system, the audio industry made a signal pre-out standard. To convert the audio signal to this



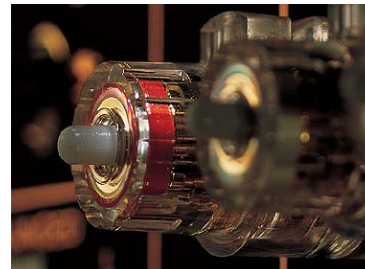
specification, every audio device has been equipped with Op-amps (operational amplifiers) for which integrated circuit are commonly used. Unfortunately these IC's do not match the very high requirements of Marantz. Marantz developed it's own discrete circuit boards. These HDAM's consists of discrete surface mount components with short mirror image L/R signal paths. These devices are doing exactly the same

thing as the Op-amps, but outperform the regular integrated circuit Op-amps dramatically in terms of the Slew Rate, resulting in a much more dynamic, accurate and detailed sound.

### WBT terminals

WBT is a specialised company which is fully dedicated towards designing and producing high quality audio connectors.

Their products are fully accepted as the reference for audiophile



products. For this reason Marantz equips our premium products with WBT connectors.

### Super Ring transformer

Super-Ring transformer has the same advantage with a toroidal transformer such as high efficiency, stability, and speed. In addition to that the super ring transformer outperform the



toroidal transformer on certain aspects. Thanks to its round shape of the core, the super ring transformer's electro-magnetic radiation and mechanical vibration are extremely low.

### CCNE

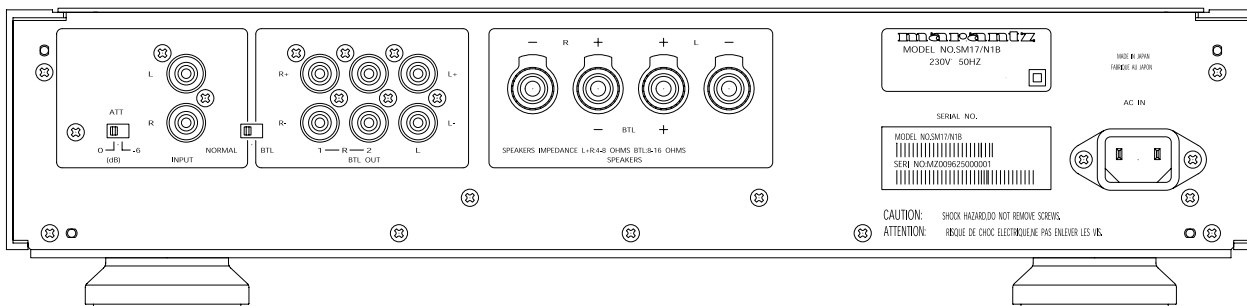
Continued research has revealed a new area of refinement: the power supply noise. Marantz has developed the Current Conversion Noise Elimination (CCNE), which improves the mid-band to high frequency signals, through a clear elimination of high frequency distortion in the amplifier output. This offers the listener a sweeter sound with improved high frequency definition.

### **Linear Drive Power Supply (LDPS)**

Marantz' Linear Drive Power Supply (LDPS) makes sure that there will always be enough power available to drive the speakers even with the very highest dynamics. The LDPS also enables the amplifier to drive difficult speaker loads.

### **Bypacked Accessories**

- User manual
- Power cable



## SM-17

## Preliminary Specifications

### FEATURES

Channels  
 Current Feedback Topology  
 Class A Amplification  
 Linear Drive Power Supply  
 CCNE  
 Power Transformer  
 HDAM  
 Symmetric PCB Layout  
 Copper Plated Chassis  
 High Grade Audio Components  
 Customised Components  
 BTL possibility  
 Balance / Bass / Treble / Loudness  
 Source Direct  
 Separate Solid Heat Sinks  
 Speaker A/B  
 Record Selector: full / copy-source  
 Tape Monitor  
 Temperature Gauge  
 Standby Mode

### INPUTS/OUTPUTS

Audio Inputs 1  
 Phono input: MM/MC •/•  
 Audio Outputs -  
 Balanced In/Out -/  
 External Control In (Composite) -  
 Processor In/Out -  
 Pre-out / Main-in -/  
 D-Bus In/Out -  
 Gold plated cinch •  
 Speaker Terminal: WBT  
 AC Outlets (Not for UK Model) -  
 Headphone Out -

### SPECIFICATIONS

2 Power Output (8/4 Ohm RMS) 60/100 Watts  
 • Power Output (8/4 Ohm DIN) 72/115 Watts  
 - Power Output (8/4 Ohm IHF) 75/125 Watts  
 • Frequency Response 5Hz-70kHz (+0,-1dB)  
 • Total Harmonic Distortion 0.01%  
 Super-Ring Bridged Power Output (8 Ohm RMS) 200 Watts  
 • (copper) Damping Factor 100  
 • Input Sensitivity: MM -  
 - Input Sensitivity: MC -  
 • Input Sensitivity: High level 116mV /22kOhm  
 - Signal to Noise Ratio MM/MC/High Level  
 • -/-/112 dB  
 -/-/- Channel Separation: 1kHz / 10kHz >80/>70 dB

### GENERAL

Color Black / Gold  
 • Metal Front Panel •  
 • Remote Control -  
 - System Remote Function -  
 Power Consumption 180W  
 • Detachable Power Cable •  
 Maximum Dimensions (W x D x H) 458x110x429 mm  
 Weight 15.5 kg

Design and specifications are subject to change by Marantz without notice

[www.marantz.com](http://www.marantz.com)

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