

PRODUCT INFORMATION SHEET

SPM5000 Mk II Power Amplifier

Product Description

In response to demands for a larger amplifier we have re-engineered our original SPM5000 as our most powerful stereo amplifier to date. Using the latest low distortion amplifier circuitry with our own proprietary lateral structure dual-die MOSFETs the SPM5000 Mk II is able to drive extremely difficult loudspeaker loads with clarity and precision.



The heart of any amplifier is the power supply and in the SPM5000 Mk II we have doubled up the power reserve to include two of our 4KW high frequency switch mode supplies that include our unique dynamic coupling. This allows instantaneous power to be taken from both power rails simultaneously when the music demands, giving perfect balance and dynamic precision. This technology is complemented by a large bank of energy storage capacitors that are 'recharged' by the power supply many thousands of times a second giving the amplifier huge reserves and the ability to react effortlessly to any signal. Unobtrusive protection circuitry constantly monitors the amplifier status and using magnetic current sensing will shut down the SPM5000 Mk II in the event of a short circuit, or dc overload. Delivering a comfortable 560W rms into 8 Ω the SPM5000 Mk II will be the perfect accompaniment to most larger loudspeakers and can be used for stereo or as part of a multichannel system when combined with further amplification.

Connectivity is achieved via true balanced XLR style or RCA phono inputs and two pairs of loudspeaker outputs with gold plated connections. Simplicity of operation is retained with a single power button to switch the SPM5000 Mk II out of standby with a short delay before output relays internally connect the loudspeaker outputs. Status is indicated on the faceplate by a simple power LED and a sequence of further LED's that illuminate as the amplifier approaches clip point and maximum power delivery.

Externally the casework is machined from solid aluminium to give our trademark looks and rigid damping that eliminates vibration, and it comes as standard with the Integra leg system to further enhance the rigidity.

The SPM5000 Mk II builds on our considerable experience in the design and manufacture of the world's best consumer and professional amplifiers and with stunning looks and simplicity of operation the SPM5000 Mk II is the perfect addition to any larger system.

Product Specification

OUTPUT POWER	560W rms per channel @ 0.05% distortion into 8 ohms 1020W rms per channel @ 0.05% distortion into 4 ohms. Thermal limitation only, 1 channel driven.
DYNAMIC HEADROOM	650W rms per channel into 8 ohms, 1100W rms per channel into 4 ohms. - 1 KHz, 20 cycles on, 480 cycles off. Peak pulses 8 milliseconds burst 90V peak (the equivalent of over 1600W per channel peak into 4 ohms)
FREQUENCY RESPONSE (8 OHMS)	-1dB, 0.2Hz to 46KHz -3dB, 0.1Hz to 77KHz
FREQUENCY RESPONSE (4 OHMS)	-1dB, 0.2Hz to 39KHz -3dB, 0.1Hz to 75KHz
SIGNAL TO NOISE RATIO	Better than -103dB, 'A' weighted two thirds power.
CHANNEL SEPARATION	Better than 95dB.
PRE-AMPLIFIER INPUT CONNECTION	2 x gold-plated, fully balanced XLR sockets. 2 x gold-plated custom phono sockets, unbalanced.
INPUT IMPEDANCE	100k Ω . Unbalanced/Balanced.
INPUT CAPACITANCE	<30pf.
OUTPUT IMPEDANCE	0.02 Ω
OUTPUT INDUCTANCE	2.6 μ H
OUTPUT CONNECTIONS	4 x Gold plated WBT binding posts
SLEW RATE	70V per μ S, 1KHz 20V square wave
GAIN	30dB.
STABILITY	Unconditional
DIMENSIONS (Standard)	480mm (w) x 400mm (d) x 310mm (h)
WEIGHT	45Kg



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