

# Reference Phono 3SE Phono Stage

**SKU** REFPhono3SE

**Category** Sources - Analog

## Electronic Specifications

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**Frequency Response:**

±2 dB of RIAA, 10 Hz to 60kHz; 3 dB points below 0.3Hz and above 300 kHz.

**Distortion:**

Less than .002% at 1.0V RMS 1kHz output.

**Gain:**

Selectable 51 dB (Low) and 73 dB (High) at 1kHz BAL; 45 dB (Low) and 67 dB (High) at 1kHz SE. (MC and MM compatible).

**Input Impedance:**

47k Ohms and 100 pF SE. Selectable loads: 1000, 500, 200, 100, 50 Ohms, and Custom.

**Output Impedance:**

400 ohms Balanced, 200 ohms SE. Recommended load 50k-100k Ohms and 100 pF. (10k Ohms minimum and 2000 pF maximum).

**Output Polarity:**

Non-inverting.

**Phono Equalization:**

(selectable) RIAA, Columbia, and Decca.

**Maximum Input:**

250 mV RMS at 1kHz (680 mV RMS at 10kHz) – Low Gain.

**Rated Outputs:**

2V RMS (1V RMS SE) into 200K ohm balanced load (maximum balanced output capability is 30V RMS at less than 0.5% THD at 1kHz).

**Controls:**

6 Push Buttons: Power, Menu, Option, Enter, Input, Mute.

**Power Supplies:**

Electronically regulated low and high voltage supplies. Automatic 2 minute warm-up/brown-out mute. Line regulation better than .01%.

**Noise:**

0.28 µV equivalent input noise, IHF weighted. Shorted (Low Gain) input (71 dB below 1mV 1kHz input). 0.082 µV equivalent input noise (High Gain). (62 dB below 0.1 mV 1kHz input).

**Tube Complement:**

(6)-6H30P dual triodes, plus (1 each) 6550WE and 6H30P in power supply.

**Power Requirements:**

100-135VAC 60Hz (200-270VAC 50/60Hz) 130 watts. Standby: 2 watts.

**Dimensions:**

Width 19" (48 cm)

Height 7.8" (19.8 cm)

Depth 16.5" (41.9 cm)

Handles extend 1.6" (4 cm) forward of the front panel.

**Weight:**

36.5 lbs. (16.6 kg) Net; 53 lbs. (24 kg) Shipping.