

# 810LP

Reference Phono Preamplifier

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**A** dual-mono fully balanced differential design, the MOON 810LP is an “all out assault” on phono preamplification. This is the result of a unique combination of customized parts in an ultra-refined audio circuit, mounted on a gel-based floating suspension and fed by a unique power supply. Its highly configurable nature - selectable gain (40 to 70dB), impedance loading (12.1 to 47k $\Omega$ ), capacitance loading (0 to 1120pF) and equalization curves (RIAA & IEC) - is accomplished using DIP switches located on the bottom panel. These switches are located directly in line with the circuit at optimal locations to yield the shortest possible signal path. These adjustments, in conjunction with an excellent overload margin, allow the 810LP to work with virtually any available phono cartridge.

*“With the MOON 810LP, we envisioned a design with absolutely no restrictions; the ultimate goal being to transport all of the emotion from the artist in the recording studio to your living room.”*

The oversized power supply, located within the main chassis, is housed in an isolated enclosure that is constructed from satin coated 14-gauge steel to eliminate all traces of AC artifacts. Within this enclosure is a high quality toroidal transformer, a “pi-type” filter to reduce AC transmission noise and multiple stages of voltage regulation. Finally, on the actual audio circuit, there are 4 stages of **M-LoVo** - an all new proprietary MOON Low Voltage discrete DC regulation circuit. Combining all of these factors, the MOON 810LP’s power supply exceeds the performance of a battery supply with respect to both audio signal-to-noise ratio and voltage regulation.

## Significant Design Features

- ▲ Power supply voltage regulation includes **i<sup>2</sup>DCf** (Independent Inductive DC Filtering); 1 inductor for each and every IC in the audio circuit’s signal path – 24 stages in all.
- ▲ The dedicated audio circuit board is mounted on a 5-point gel-based floating suspension, derived from our **M-Octave** technology, originally developed for our reference 850P Preamplifier.
- ▲ Fully compatible with **820S** external power supply.
- ▲ Customized parts include metallized polypropylene film capacitors with very tight tolerances of 1%.
- ▲ Four-layer PCB tracings with dedicated ground and power planes using pure copper for low impedance characteristics.

## Specifications

Inputs (XLR / RCA)	1 pair / 1 pair
S/N Ratio (full scale @40dB gain)	115dB
S/N Ratio (full scale @70dB gain)	95dB
IEC Curve Effect	-7dB @ 10Hz
Frequency response	20Hz - 20kHz $\pm$ 0.1dB
Crosstalk @ 1kHz	-106dB
Output impedance	50 $\Omega$
THD (20Hz - 20kHz)	0.0008%
Intermodulation distortion	0.001%
Input overload @40dB gain (XLR / RCA)	200V RMS / 100V RMS
Input overload @70dB gain (XLR / RCA)	5mV RMS / 2.5mV RMS
Shipping weight	40 lbs / 18 Kgs
Dimensions (width x height x depth)	18.75 x 4.0 x 16.8 in. 47.6 x 10.2 x 42.7 cm.

### Available Finishes



### Rear Panel

