

# Evolution Series

# 820S Power Supply with M-R2S Technology



The **820S** is the large and eagerly anticipated power supply that offers an upgrade path for certain Evolution series models. Making use of everything we know about power supply design with respect to circuit layout, filtration and regulation has gone into the **820S**. Featuring state-of-the-art, custom-built dual toroidal transformers, choke filtering, and our own MOON Reference Regulation System (**M-R2S**) circuit, the **820S** is capable of doing what was once thought of as virtually impossible: improving on the already superlative power supplies built into our products, by further reducing the noise floor while maintaining an even greater voltage stability. The astonishing sheer “blackness” of the musical background created by the addition of this power supply must be heard to be believed.

Designed to elevate the performance of products that already perform stratospherically at their price points, the **820S** was created through painstaking R&D, creative ingenuity and a passion for perfection.

The **820S** is equipped with two sets of outputs; It can upgrade the performance of any one, or any combination of two of the following MOON Evolution series products simultaneously:

- ▲ 740P Preamplifier
- ▲ 650D and 750D DAC/CD Transports
- ▲ 6IOLP and 8IOLP Phono Preamplifiers

Each output provides DC power for both analog circuitry (audio) and digital circuitry (controller, CD transport, front panel displays) on 2 separate and unique XLR type cables.

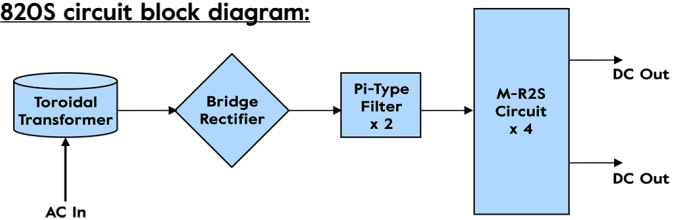


M O O N

MUSICAL ECSTASY

simaudio.com

## 820S circuit block diagram:

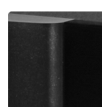


*Note: There are 2 circuits like this block diagram in the **820S**; one each for the analog and digital power supplies.*

## Significant Design Features:

- ▲ Two custom proprietary toroidal transformers with lower magnetic, electrical and thermal loss, for an improved power transfer and a lower regulation factor. The result is increased current speed and better dynamics; One each for analog and digital power supplies.
- ▲ The analog and digital power supplies each have 2 special “pi-type” filters after the initial voltage rectification stage that reduce AC transmission noise, using 40,000uF of capacitance (4 x 10,000 uF) and dual choke inductance (2x 20mH).
- ▲ The analog and digital supplies each have 4 stages of our proprietary **M-R2S** circuit; A fully discrete voltage regulation circuit using a “precision reference” feeding an amplifier comprised of numerous IC’s and transistors as opposed to a single voltage regulation chip. **M-R2S** outputs pure DC power that is exceptionally fast, very precise, has a virtually unmeasurable noise level, as well as absolute stable voltage.
- ▲ 4-Layer printed circuit boards with pure copper tracings and extremely low impedance characteristics yielding much shorter signal paths and drastically reduced noise levels.

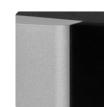
## Available Finishes



Black



Silver



2-Tone

