

norma
AUDIO ELECTRONICS

norma
REVO AMPLIFIER

NORMA REVO PA-150, PA-160MR



The power amplifiers of the Norma REVO line represent the result of years of experience and accurate testing, reaching for the best in sound, looks, and versatility.

As all the other products in the Norma production, they combine high power, ability to drive the most demanding speakers, exceptional build quality and carefully selected materials, all to deliver a unique, dynamic and transparent sound, with total lack of listening fatigue.

The REVO PA-150 (Stereo, 150W/8 Ohm), is a perfect match with the preamplifier REVO SC-2, which expresses the same sound personality, but will also work excellently with other preamplifiers.

For example, the best tube preamps will be able to give the sound their particular sonic characteristics, confiding on the extreme neutrality of the PA-150, which will take care of restlessly driving the speakers, without altering the sound.

The REVO PA-160 MR (Mono Regulated, 160W/8 Ohm) takes all the qualities of the stereo model, and combines them with the exclusive refinement of fully regulated and stabilized power supply.

The result is a cleanness of sound never experienced before. The unnatural sense of reproduction is dissolved; you are finally intimate with the Beauty of Music. Nothing else, nothing less.



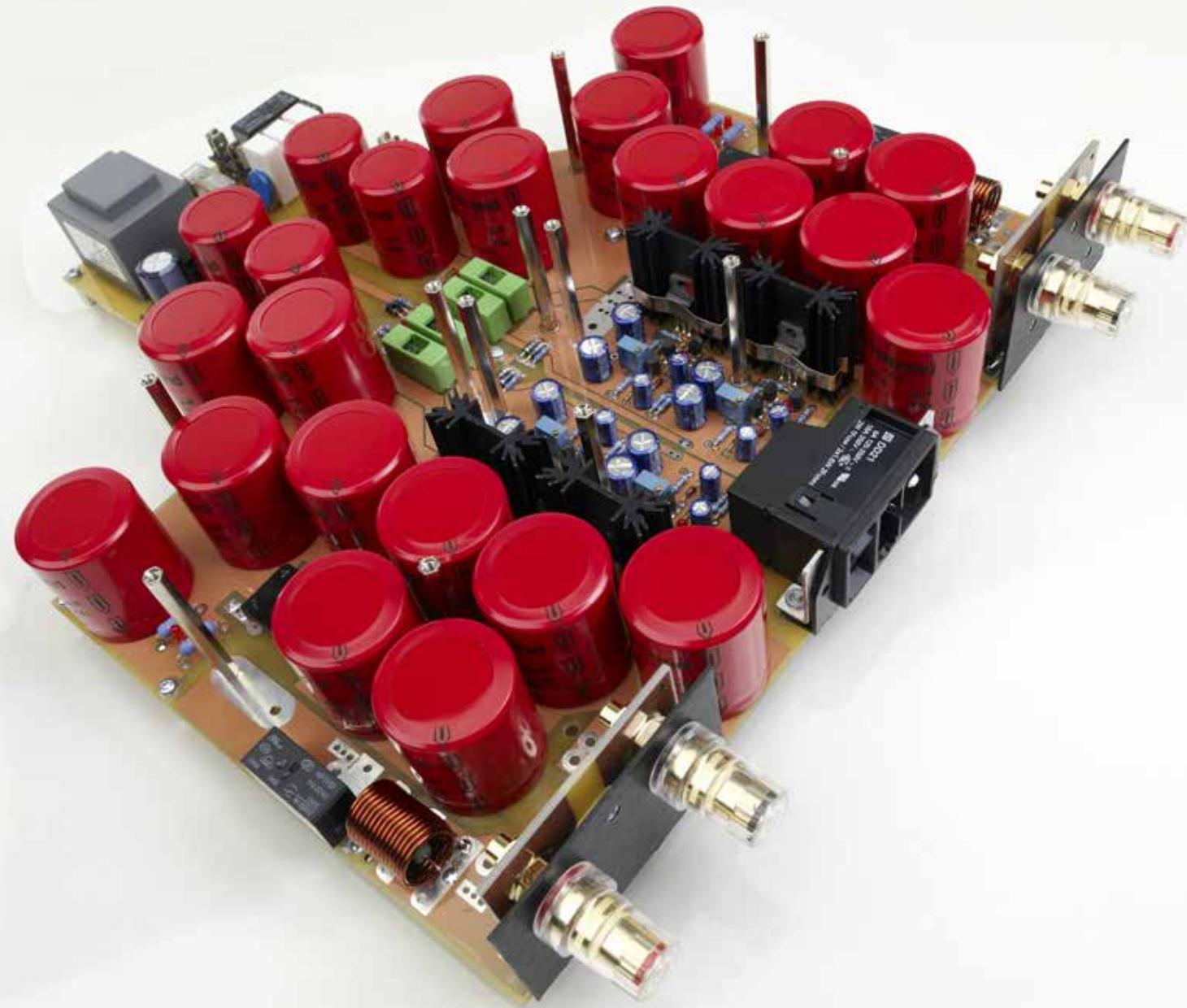
Norma is based in Cremona, Italy.

The city and its surroundings are well known all over the world for being home to great composers as Monteverdi and Ponchielli, and to famous violin makers such as Stradivari, Amati, Guarneri and many others. As of today, more than 100 violin makers' shops are found in the ancient roads of the city. In this inspiring context, where music permeates everything, for more than 20 years Norma has been involved in the study and implementation of sophisticated audio amplifiers, where technical skills and musical sensitivity must be merged together, in the same way the best musical instruments are made.

The result of this endeavor is a unique sound, which represents a synthesis of parameters usually set one against each other: dynamics, speed, and absolute transparency are combined with extraordinary musicality and total lack of listening fatigue.

The struggle between solid state and valves is finally overcome, as is the concept of reproduction.

Norma brings the listener to an intimate relation with the original event.



Technical Features (PA - 150):

- Extreme low noise, high speed, wide band circuit topology (>2 MHz).
- High current MOS-FET power devices (200 A output peak current PER CHANNEL).
- 16 power devices for a total rated 2.000 W power handling capability.
- Separate power supply for Gain, Driver and Output stages.
- High speed, low noise regulated power supply for Gain and Driver stages.
- High filtering capacity (70.000 μ F) with numerous (24) low impedance capacitors.
- Full aluminium non-magnetic frame.
- 2 toroidal power transformers especially designed for audio applications. Low dispersion flow, low mechanical noise, high permeability magnetic core with consequent low output impedance, 2 x 400 VA.
- Very effective DC protection.
- Input selection done by relay with GOLD/PALLADIUM contacts.
- Solid core gold plated RCA plugs.
- Automatic microprocessor stand-by, which removes the possibility of interference on analog signal.

Technical Features (PA - 160 MR):

- All features of PA-150, plus
- 8 high current MOS-FETs for power stabilization (per unit).
- High speed, low noise regulated power supply also applied to the amplification power output stage.
- When using two REVO PA-160 MR for a stereo configuration, the number of low impedance capacitors, the filtering capacity, and the number of toroidal transformers is of course doubled.

"Upon request, the REVO PA Series is also available in black anodized finish"

Technical Specifications:

- Inputs: 1 RCA (unbalanced) , 1 XLR (Balanced)
- Input Impedance: 47 Kohm
- Speaker Outputs: 2 pairs for main outputs (1 pair in PA-160)
- Frequency Response: D.C. – 2 MHz (-3dB)
- Configuration: Solid state (Dual Mono in PA-150)
- Output Power (PA 150): 150 W RMS / 8 Ohm - 300W RMS / 4 Ohm (per channel)
- Output Power (PA 160 MR): 160 W RMS / 8 Ohm - 320W RMS / 4 Ohm
- Gain, Sensitivity: 28.5 dB, 1.30 V RMS @ 150 W / 8 Ohm
- Supply: 230 V AC / 50 Hz, (100V AC or 115 VAC / 50-60Hz in some countries)
- Dimensions (HxWxD): 125 x 430 x 430 mm
- Weight: 25 Kg (per unit)
- Note: Specification subject to change without notice





Front view – All Versions



Rear view – PA-150



Rear view – PA-160 MR



Top view – PA-150



Top view – PA-160 MR

"The difference the Mono Regulated amp makes among the others? Well, many ask me "What does it do more?" But it's not about what it adds, really. It's what it removes. Quality over quantity; all in the pursue of elegance, refinement, and essentiality.

The subtlest distortion, the smallest non-linearity in response.. everything, everything apart from the musical signal you feed it. When they restored the Cappella Sistina, they did not paint it with new colors, but "only" removed with great accuracy all the dirt the centuries had put over it. And this brought out the True Glory of the original work. It's the beauty about the Monos: They leave You, the Music, and nothing else."

Enrico Rossi



The amplifying section and the regulated power supply, housed on two different levels, are connected entirely without the use of internal wiring, thanks to an extraordinarily symmetric and organized construction.

The amplification circuitry, fruit of long experience and intensive testing, is contained in proprietary modules, completely realized with discrete components.

This design of the PA-160 MR is almost unique in the world production. "Why?" you might ask.

Designing a stabilization circuit for the power output stage is a very complex operation, as the power supplier must have better characteristics than the power amplifier itself.

For this reason, the stabilized power supply section is housed on the same board as the amplifying section to keep the distance and impedance between them as little as possible, all in favour to the power delivery speed.

Also, 8 power MOS-FETs are utilized just for the stabilizing section.



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