Nothing in audio will ever be the same

Resolution Series 118

The most amazing power amplifier ever

FM ACOUSTICS’ status as the uncontested leader in precision amplification has been established through relentless research, thorough development and meticulous craftsmanship.

In celebration of FM ACOUSTICS fortieth anniversary proudly to be presented: the culmination of all this experience, the FM 118.

The Resolution Series® 118 opens up a splendid new world in music appreciation, a world that until now has not been discovered.

This jewel of audio art has been crafted for the few aficionados who own equipment that allows the FM 118 to optimally reveal its phenomenal performance. Only forty pairs of the 118 will be crafted, each pair celebrating one year of FM ACOUSTICS’ mission to create musical masterpieces.

Of course, the technical data read impressive, however, they can in no way represent the actual performance of this marvel. The 118 elicits a reproduction accuracy that just cannot be imagined. That the Resolution Series 118 delivers tremendous dynamics with complete ease and unparalleled control of the diaphragms is conceivable. What is utterly astounding, however, is the unique realism, an incredibly lifelike presence and "be there" experience for which no technical terms nor words exist.

The value of the FM 118 is reflected in its research and development efforts (amortized to these forty pairs) and its unique status as the most amazing power amplifier ever crafted.

Subscription is by invitation.

FM 118, the milestone achievement that is becoming one of the most collectible items ever.
Specifications are often misunderstood, misused or utilized only to "sell" a product instead of indicating its actual performance capabilities. "Typical" specifications will not tell much about the true value of a certain component. Only guaranteed minimum data as specified for all FM ACOUSTICS products, together with carefully controlled listening tests will provide accurate and useful information. Please observe these distinctions if you make comparisons with data sheets of other products. All specifications are guaranteed minimum figures for every FM 118.

Maximum Power Output:
Precision non-bridged mono amplifier.
As a general indication of capability: the numbers below are measured into resistive load while operating with continuous music or continuously repetitive toneburst. These ratings, however, cannot fully represent the actual performance when driving precision transducers.

- 1000 W<sub>peak</sub> into 8 Ohm
- 2000 W<sub>peak</sub> into 4 Ohm
- 3500 W<sub>peak</sub> into 2 Ohm
- 6000 W<sub>peak</sub> into 1 Ohm

- 500 W<sub>RMS</sub> into 8 Ohm
- 1000 W<sub>RMS</sub> into 4 Ohm
- 1800 W<sub>RMS</sub> into 2 Ohm
- 3000 W<sub>RMS</sub> into 1 Ohm

Bandwidth including Anti-RFI circuit:
5 Hz to 60 kHz.
Internally adjustable to other frequencies

Hum and Noise: (22Hz-22kHz).
Below full power typically: -115 dB
Min. unweighted: better than -100 dB

Input:
Proprietary electronically balanced discrete enhanced class A circuitry, floating ground, non-inverting or inverting mode.

Input Sensitivity: 1.6 V<sub>RMS</sub> for full output

Input Impedance:
At all level settings from balanced and unbalanced sources: 40 KOhm
Unbalanced sources are balanced right at the input of the FM 118.

Max. Audio Output Voltage: 180 V<sub>pp</sub>

Max. Audio Output Current:
Absolutely unlimited Peak current (600A peaks have been measured!) allows the FM 118 to drive any known load at peak performance level without any strain, harshness or any other negative influence on the audio signal.
There are no fuses or limiters in the amplifier or power supply circuity; absolutely no form of current limiting, voltage limiting or any other kind of limiting is employed which is one reason for the breathtaking dynamic rendering.

Distortion: 0.003% THD

Gain: 30.5dB

Chassis Resonance Damping:
High-strength, dual anti-resonance chassis design effectively isolates sensitive electronic components from potential negative influence such as induced resonance. In addition, mechanical resonance damping on all panels is employed. The whole chassis including covers, plates, transformer mounting, transformer leaves, side panels, capacitor mountings etc. use FM ACOUSTICS' proprietary resonance suppression techniques.

Average Life Expectancy:
At 25°C ambient temperature, medium power, 10 h/day, 365 days per year: 40 years

AC Voltage:
fixed at either 100-115 or 200 - 230V, 50-60 Hz

Maximum Mains Over-voltage:
Short-term, not on switch-on: 170% V<sub>nominal</sub>
Long-term, incl. switch-on: 110% V<sub>nominal</sub>
**Input Connector:**
- Female XLR 3-pin balanced:
  - Non-inverting: Pin 1: ground
  - Inverting: Pin 1: ground
  - Pin 2: return (cold) Pin 2: signal (hot)
  - Pin 3: signal (hot) Pin 3: return (cold)

**Output Connectors:**
- Paralleled FORCEPLUG 200, proprietary ultra low loss high-performance connector receptacles.
- Continuous current handling = 200A, 1200Apeak

**Spare Parts Availability:**
- Guaranteed available for a minimum of 10 years.
- Guaranteed ex stock availability of 99% of all individual parts.

**Weight:**
- 46 kg net
- 52 kg packed

**Dimensions:**
- 430 mm wide
- 260 mm high
- 550 mm deep

**IEC, DIN and MIL (Military) Standards of components used:**
- MIL-R-STD 202 method 101, 103, 106, 204, 213, 301
- MIL-R-11804/2B/G
- MIL-R-22097
- MIL-R-10509
- MIL-R-55182
- MIL-R-22684
- MIL-R-45204 TYPE 2
- MIL-R-23285
- MIL-C-19978 B
- MIL-VG-95-295
- MIL-S-23190 R.I.N.A Nr. 5/206/85

**Note:** A pair of FM 118' requires two separate mains supplies that each can provide at least 12.5A at 200-240V (or 25A at 100-120V) without any mains voltage drop.

"You've never heard it so good!"