

Solo

Power Amplifier for High-Quality Sound Reproduction



such speaker systems strongly depends on frequency and interferes with traditional protection circuits. The Solo does not employ these circuits. It drives any loudspeaker with an exact and powerful copy of its input signal. That's all!

The Solo uses a PentaFET output stage that is driven from a wide-band, low noise and low distortion integrated circuit amplifier. The compact and robust output stage can deliver extremely high currents and does not need electronic protection. A unique and new analog computational bias circuit accurately biases the output stage and reduces any distortion below audible levels.

The result ...

Music as it has been recorded

With its extremely low output impedance and high current drive capability, its low noise and low distortion, the Solo brings any recorded detail to your loudspeaker. You could characterize the Solo by its strong and crystal clear sound, yet ... the Solo does not have a sound of its own. It just amplifies and adds nothing but power to your music. Loud and clear!

This is the result of a well-balanced straightforward design and the absence of electronic protection circuits. A mains fuse and an auto-recovery thermal mains switch protect your amplifier. That's enough!

The Solo can deliver 60W RMS into an 8 Ω load and 100W RMS into a 4 Ω load. The low output impedance and high current drive capability make it a perfect choice for loudspeaker systems with complex multisection crossover filters. Usually the impedance of

Isn't that what you always wanted?



Features

- Elegant design
- Stable and powerful drive for electrodynamic, magnetostatic and electrostatic loudspeakers even with complex cross-over filters
- PentaFET¹ output stage delivers 120W peak power into 8Ω
- High current drive capability over a wide output voltage range
- Ultra low distortion < -96dB over the full audio frequency range and for output powers up to 60W in 8Ω
- Low noise < -126dB (DIN A weighted)
- Wide bandwidth DC-200kHz, limited by a low-pass filter at the input of the amplifier
- Dynamic Class AB biasing using ABC&C²
- Silent on/off architecture³
- Thermal overload protections^{4 5}

Technical specifications⁶

Nominal output power at 1Vrms input	60 W (in 8Ω) 100 W (in 4Ω)
Total Harmonic Distortion 8 Ω, 0-60 W, 0-10 kHz	< -96 dB (0.0015%)
Output impedance at 1 kHz	4 mΩ
Damping factor at 8 Ω, 1 kHz	66 dB
Peak output current (source and sink for -25V < Vout < +25V)	> 60 A
Output noise and hum voltage (unweighted)	< 20 μVrms
Output noise level (DIN A weighted)	<-126 dB
-3dB small-signal bandwidth	0-200 kHz
DC output voltage (input shorted)	< 10 mV
Voltage amplification factor	22 V/V
Input impedance at 1kHz	4.5 kΩ
Mains voltage (factory selected)	115/230 Vrms
Mains frequency	50/60 Hz
Power consumption (no signal)	20 VA
Dimensions (WxDxH)	165 x 150 x 251 mm
Weight	approx.6 kg

The Solo has been designed by Anton Montagne.

The Solo is manufactured in the Netherlands, in exclusive small series.

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¹ PentaFET: matched Triple P-MOSFET and Dual N-MOSFET push-pull output stage

² ABC&C: Analog Bias Computation & Control for stable and distortion free dynamic class AB operation

³ Silent on/off circuit architecture guarantees low noise on/off switching without the use of relay switches

⁴ Mains fuse protects the output stage in case of a shorted output (no electronic current limiting circuits)

⁵ Auto reset thermal mains switch protects output stage in case of thermal overload

⁶ **Typical values.** The information provided here is believed to be reliable; however, Montagne Consultancy assumes no responsibility for inaccuracies or omissions. Specifications are subject to change without notice. Montagne Consultancy does not authorize or warrant this product for other applications than high-fidelity audio playback systems.