

CRESCENDO SYSTEMS HIGH END AUDIO COMPONENTS

Solo

Power Amplifier for High-Quality Sound Reproduction



Music as it has been recorded!

With its high current drive capability, its low noise and low distortion, the Solo brings any recorded detail onto your loudspeaker. You might 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 lack of electronic protection circuits. A slow-blow 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 such speaker systems strongly depends on frequency and interferes with traditional protection circuits. The Solo doesn't 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 does the main amplification. An analog computational bias circuit accurately biases this output stage and reduces any distortion below audible levels.

With the Solo ... you can hear the music as it has been recorded!

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
- Low distortion < -96dB over the whole audio frequency range and for output powers up to 60W in 8Ω
- Low noise < -126dB (DIN A weighted)
- Wide bandwidth (DC-200kHz)
- Dynamic Class AB biasing using ABC&C²
- Silent on/off architecture³
- Thermal overload protections^{4 5}

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 silent 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)

Technical specifications (preliminary)

Voltage amplification factor	22 [V/V]
Output noise voltage (unweighted)	< 20 [μ Vrms] (<-126dB din A)
DC output voltage (input shorted)	< 20 [mV]
-3dB small-signal bandwidth	0-200 [kHz]
Nominal input voltage for 60W RMS in 8 Ohm	1 [Vrms]
Total Harmonic Distortion 8 [Ω], 0-60 [W], 0-10 [kHz]	< -96 [dB] (0.0015 [%])
Input impedance at 1[kHz]	4.5 [$k\Omega$]
Output impedance at 1 [kHz]	4 [$m\Omega$]
Damping factor at 8 [Ω], 1 [kHz]	66 [dB]
PENTAFET output stage bias current (no signal)	50 [mA]
Peak output current (source and sink)	> 40 [A]
Mains voltage	120 [Vrms]
Mains frequency	50/60 [Hz]
Power consumption (no signal)	20 [VA]
Mains fuse (slow blow)	2 [A]
Heatsink temperature for mains switch-off	160 [$^{\circ}$ F]
Heatsink temperature for mains recovery	130 [$^{\circ}$ F]
Heatsink temperature recovery time (typical)	600 [s]
Dimensions (WxDxH)	6.5 x 6 x 10 [inch]
Weight	11 [lbs]

Pricing

SOLO Blue or Grey	\$895
SOLO Stainless steel	\$950

(All prices exclude shipping, VAT and import duties where applicable)

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