



PRO 1|10 EVO

TECHNICAL DATA SHEET

HI-END mono Class D power amplifier

900 W / 4 Ω 1600 W / 2 Ω 3000 W / 1 Ω*

FEATURES

- Extended audio frequency response beyond 20 kHz for high-resolution reproduction.
- High efficiency and low heat dissipation in a compact design.
- High damping factor for maximum loudspeaker control.
- Unregulated power supply with microprocessor-controlled switching.
- SMD technology for minimum footprint and maximum reliability.
- DIP switch adjustment to match the amplifier to the input signal.
- Microprocessor-based amplifier status monitoring and temperature-dependent fan control.
- Heavy-duty power supply and speaker terminals.
- Four-layer PCB with 70 µm copper traces to minimize losses.
- Perfectly matched for use with Mosconi DSPs.

POWER SUPPLY

Supply voltage	10–16 V
DC-DC converter topology	Unregulated push-pull, 50 kHz
On-board fuse	1 × 150 A
Standby current	< 2 mA
Overall efficiency	> 75%

OUTPUT

RMS output power at 4 Ω	900 W
RMS output power at 2 Ω	1600 W
RMS output power at 1 Ω	3000 W*

* Music signals and real loudspeakers only.

SIGNAL INPUT

Low-level input sensitivity	1–8.75 V
Sensitivity adjustment	32 settings via DIP switch
Input impedance	20 kΩ

CONNECTIONS

Power supply	Gold-plated terminal block
Speaker output	Gold-plated terminal block
Signal input	2 gold-plated RCA connectors

SENSITIVITY SETUP

SENSITIVITY CHART			
DEFAULT SETTING 2.00V			
1.00		4.00	
1.25		4.25	
1.50		4.50	
1.75		4.75	
2.00		5.00	
2.25		5.25	
2.50		5.50	
2.75		5.75	
3.00		6.00	
3.25		6.25	
3.50		6.50	
3.75		6.75	
4.00		7.00	
4.25		7.25	
4.50		7.50	
4.75		7.75	
5.00		8.00	
5.25		8.25	
5.50		8.50	
5.75		8.75	

CEA-2006-A SPECIFICATIONS

Rated output power	900 W × 1 at 14.4 V, 4 Ω, < 1% THD+N
S/N ratio	> 80 dBA (ref. 1 W at 4 Ω)

THD

THD at 4 Ω	< 0.05% (1 kHz, 100 W RMS)
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OTHER ELECTRICAL CHARACTERISTICS

Mute delay	3 s
Secondary voltages (VDD / SERV / DRIVE)	±50.2 / ±13.0 / ±12.4 V
Idle current (no signal, 14.4 V)	1.0 A
Thermal shutdown current	0.15 A
Battery-to-secondary ground decoupling	1 kΩ
Battery-to-chassis ground decoupling	100 mA PTC (approx. 7 Ω)
Bandwidth (–3 dB at 1 W)	13 Hz–29 kHz
S/N ratio (10 Hz–22 kHz, ref. 600 W RMS)	108 dB (A-weighted)
Equivalent input noise (10 Hz–22 kHz)	< 8 µV (A-weighted)
Fan on/off temperature	50 / 45 °C
Thermal shutdown/restart	90 / 70 °C
Damping factor at 4 Ω	> 100
Start-stop operation	Down to 7.5 V for up to 300 ms
Microcontroller	Atmel processor

PCB

Base material	FR4 (135 °C)
Solder mask	Matte black
Number of layers	4
Copper thickness	70 µm
Surface finish	Gold-plated

APPEARANCE

Dimensions	235 × 205 × 55 mm
Weight	2.5 kg
Finish	Black / Titanium