



PRO 2|10 EVO

TECHNICAL DATA SHEET

HI-END stereo Class AB power amplifier

240 W × 2 / 4 Ω 360 W × 2 / 2 Ω

720 W × 1 bridged / 4 Ω

FEATURES

- HI-END Class AB amplification engineered for high power.
- Output stage based on identical N-channel MOSFETs.
- Hand-selected power output devices.
- Unregulated power supply with microprocessor-controlled switching.
- Independent input sensitivity adjustment for each channel via DIP switch.
- Temperature-dependent fan control and thermal shutdown protection.
- Two-layer FR4 PCB with 70 μm copper and a gold surface finish.
- 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 × 80 A
Standby current	< 2 mA
Overall efficiency	> 75%

OUTPUT

Stereo RMS power at 4 Ω	240 W × 2 (44 A)
Stereo RMS power at 2 Ω	360 W × 2 (82 A)
Bridged RMS power at 4 Ω	720 W × 1 (82 A)

Current draw shown in parentheses.

SIGNAL INPUT

Low-level input sensitivity	1–8.75 V
Sensitivity adjustment	32 settings via DIP switch Independent for each channel
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			
<p>DEFAULT SETTING 2.00V</p> <p>ON</p> <p>1 2 3 4 5</p>			
1.00	☐	☐	☐
1.25	☐	☐	☐
1.50	☐	☐	☐
1.75	☐	☐	☐
2.00	☐	☐	☐
2.25	☐	☐	☐
2.50	☐	☐	☐
2.75	☐	☐	☐
3.00	☐	☐	☐
3.25	☐	☐	☐
3.50	☐	☐	☐
3.75	☐	☐	☐
4.00	☐	☐	☐
4.25	☐	☐	☐
4.50	☐	☐	☐
4.75	☐	☐	☐
5.00	☐	☐	☐
5.25	☐	☐	☐
5.50	☐	☐	☐
5.75	☐	☐	☐
6.00	☐	☐	☐
6.25	☐	☐	☐
6.50	☐	☐	☐
6.75	☐	☐	☐
7.00	☐	☐	☐
7.25	☐	☐	☐
7.50	☐	☐	☐
7.75	☐	☐	☐
8.00	☐	☐	☐
8.25	☐	☐	☐
8.50	☐	☐	☐
8.75	☐	☐	☐

CEA-2006-A SPECIFICATIONS

Rated output power	240 W × 2 at 14.4 V, 4 Ω, < 1% THD+N
S/N ratio	> 74 dBA (ref. 1 W at 4 Ω)

THD

THD at 4 Ω, stereo	< 0.05% (1 kHz, 90% rated power)
THD at 2 Ω, stereo	< 0.06% (1 kHz, 90% rated power)

OTHER ELECTRICAL CHARACTERISTICS

Mute delay	3 s
Secondary voltages (VDD / SERV / DRIVE)	±50.2 / ±13.0 / ±12.4 V
Channel bias	500 mA (trimmer)
Idle current (no signal/bias, 14.4 V)	0.64 A
Thermal shutdown current	0.7 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)	20 Hz–20 kHz
S/N ratio (10 Hz–22 kHz, ref. rated power)	100 dB (A-weighted)
Equivalent input noise (10 Hz–22 kHz)	< 8 μV (A-weighted)
Channel separation (ref. 10 W)	> 66 dB
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	2
Copper thickness	70 μm
Surface finish	Gold

APPEARANCE

Dimensions	235 × 205 × 55 mm
Weight	2.4 kg
Finish	Black / Titanium