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GLADEN AUDIO EUROPE

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PRO 5|30 EVO

TECHNICAL DATA SHEET

HI-END five-channel Class AB + D power amplifier

95 W × 2 + 185 W × 2 + 660 W × 1 / 4 Ω

FEATURES

- HI-END Class AB amplification engineered for high power.
- Four Class AB channels plus one Class D subwoofer channel.
- Unregulated push-pull power supply with microcontroller-managed switching.
- Independent input sensitivity adjustment for each channel via DIP switch.
- Atmel processor control and temperature-dependent ProSPEED® fan management.
- Thermal protection with separate subwoofer and overall shutdown thresholds.
- 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	150 A
Standby current (typical)	< 1 mA
Overall efficiency	> 65%

OUTPUT

RMS output power at 4 Ω	95 W × 2 + 185 W × 2 + 660 W
RMS output power at 2 Ω	150 W × 2 + 290 W × 2 + 1030 W
Bridged RMS power at 4 Ω	300 W + 390 W + 660 W

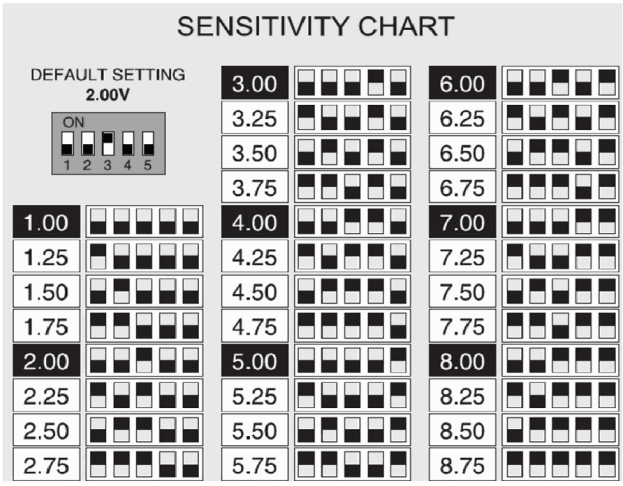
SIGNAL INPUT

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	6 gold-plated RCA connectors

SENSITIVITY SETUP



CEA-2006-A SPECIFICATIONS

Rated output power	95 W × 2 + 185 W × 2 + 660 W at 14.4 V, 4 Ω, < 1% THD+N
S/N at 1 W / 4 Ω: CH1/2; CH3/4; CH5	> 75; > 71; > 73 dBA

THD

4 Ω: CH1/2; CH3/4; CH5	< 0.045%; < 0.035%; < 1%
2 Ω: CH1/2; CH3/4; CH5	< 0.05%; < 0.04%; < 1%
Measurement reference	90% rated power; 1 kHz CH1–4, 100 Hz CH5

OTHER ELECTRICAL CHARACTERISTICS

Mute delay	3 s
VDD CH1/2; CH3/4; CH5	±33.1; ±45.3; ±84.7 V
DRIVE / SERV rails	±14 V / ±15 V
Idle adjustment, per channel	0.05 A
Thermal protection current	140 mA
Bandwidth CH1/2; CH3/4 (−3 dB, 1 W)	< 5 Hz–135 kHz; < 5 Hz–145 kHz
Bandwidth CH5 (−3 dB, 10 W)	< 5 Hz–1.75 kHz
S/N rated power, 10 Hz–22 kHz, A-weighted	94 dB
Separation, 100 Hz / 1 kHz / 10 kHz, 10 W	75 / 75 / 62 dB
Fan start / stop / max speed	50 / 45 / 70 °C
Thermal cutoff CH5 / overall; restart	90 / 100 °C; 70 °C
Damping factor at 4 Ω	> 102
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	500 × 205 × 55 mm
Weight	5.4 kg
Finish	Black / Titanium

NOTE: this amplifier is designed to play music on real speakers. It is not rated to drive static signals on pure resistive loads. Data is subject to change without notice.

MOSCONI s.r.l. | via La Villa 28 z.a. loc. Ghilardino | 61034 Fossombrone PU | IT | +39.0721.728570 | info@mosconi-system.it • Rev. 2.0 2026/10