RCORE1|600

MONO AMPLIFIER · CLASS D



The **RCore1|600** is a compact class D mono amplifier for a single subwoofer. It delivers 395 W into 4 Ω and 620 W into 2 Ω at 3 % distortion. Low-pass, subsonic filter and bass boost are adjustable on the unit, and the level can be controlled from the driver's seat with the RTC.2 wired remote. A factory head unit connects directly to the high-level input.

MEASURED DATA AND SPECIFICATIONS

RMS power at 3 % THD+N

into 4 Ω		395	W
into 2 Ω		620	W
into 1 Ω		not permitted	
THD+N at 100 W / 4 Ω		0.2	%
THD+N at 320 W / 2 Ω		0.51	%

Inputs

Sensitivity low level		0.18 – 5.2	V
Sensitivity high level		0.37 – 10.6	V
Input impedance	Z_{in}	18.6	kΩ
Turn-on		REM / auto	

Frequency and filters

Frequency response (−3 dB)		15 – 235	Hz
Low-pass	LPF	40 – 220	Hz
Low-pass slope		12	dB/oct.
Subsonic		Off – 50	Hz
Bass boost (≈ 50 Hz)		−6 / 0 / +6	dB

Performance

Signal-to-noise ratio (A-weighted)	S/N	97	dB
S/N CEA-2006 (1 W)		71	dB
Damping factor (50 Hz, 4 Ω)	DF	52	
Efficiency (2 Ω, full power)	η	73	%
Current draw (2 Ω, full power)		52	A
Idle current		0.7	A

Supply and protection

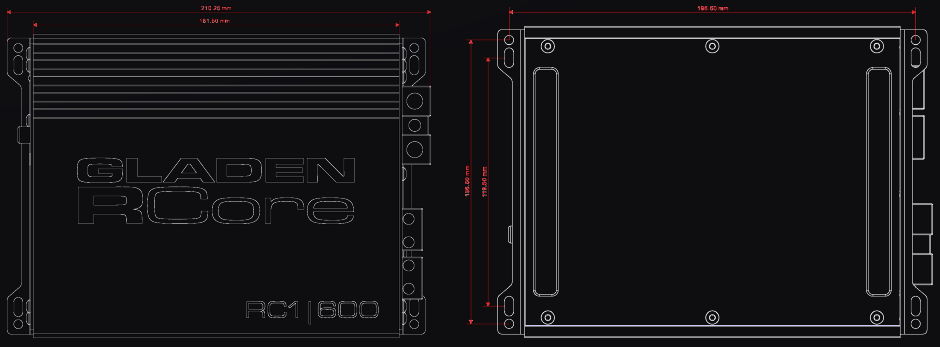
Operating voltage	10 – 16	V
Overvoltage shutdown / restart	16.4 / 15.4	V
Undervoltage shutdown / restart	7.5 / 7.8	V
Turn-on delay	3.5	s
Short-circuit protection	yes	
Thermal protection	yes	
External fuse	40	A

Installation and construction

Channels / class	1 / Class D	
Minimum impedance	2	Ω
Overall length	210.25	mm
Width	150	mm
Height	52.5	mm
Weight	1.7	kg
Remote control (optional)	RTC.2	
EAN	4260242467535	

DIMENSIONS

top and bottom view with mounting lugs, dimensions in mm



- Power at 14.4 V and 3 % THD+N; other values from the factory test of the production sample at 14.4 V and 80 Hz.
- Installation, wiring and safety: installation and operating manual (download at www.gladen.com).