

SD250.1D

State of the art class D amplifier - NANOTECHNOLOGY®
OWNER'S MANUAL



Dear customer,

Congratulations on acquiring your SounDigital!

You've just purchased a product of high quality and technology. The SounDigital products are developed to assure maximum efficiency and reliability to your sound system.

Class D Amplifiers:

The main characteristics of Class D amplifiers are: audio quality, efficiency, versatility and compact design. Here are the advantages of these characteristics:

Audio Quality – Class D amplifiers used to have a limited response in the past and they used to have a worse performance regarding higher frequencies than Class AB amps, despite being more efficient. Introducing new technologies, SounDigital developed a Class D amplifier superior to the Class AB ones in efficiency and performance.

Efficiency – The SounDigital Class D amplifiers have a total efficiency (power source + output) higher than 70%, assuring a battery consumption and a heating lower than the expected.

Versatility of uses –The flat response of all the frequencies of SounDigital amplifiers allows them to be used in all the kinds of systems: SPL, Sound Quality, and Pancadao, meeting the needs with extreme quality.

Compact design – The high efficiency and technology allow our amplifiers to be really compact, making it easy to install them in vehicles where you have limited space.

IMPORTANT INFO

Read this manual and follow its instructions and information carefully. It contains extremely important information to have your amplifier working properly. If you feel the need to contact our Tech Support, you can reach our technicians through the e-mail info@sounddigitalusa.com .

We recommend the use of SounDigital original accessories for a better performance. The crossovers, power supplies and voltmeters offered by SounDigital follow the same quality standards as our amplifiers, assuring an excellent quality and high power sound system to our customers.

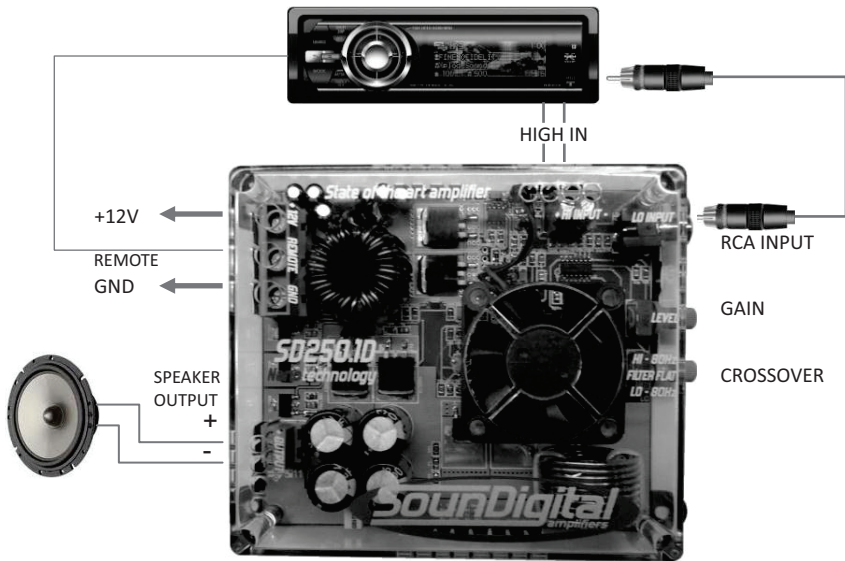
To know our complete line of amplifiers and accessories, visit www.sounddigitalusa.com .

TECHNICAL SPECS

SPECS	SD250.1D	ESPECIFICAÇÕES	SD250.1D
RMS Power @ 12.6V	1 x 250WRMS	Low Pass crossover	Fix @ 80Hz
		High Pass crossover	Fix @ 80Hz
RMS Power @ 14.4V	1 x 300WRMS	Standby current draw	<0.1A
Peak Music Power	1 x 3000W	Maximum current draw	22A
Efficiency	95%	Musical current draw	11A
Impedance versions	1Ω or 2Ω		
Frequency response	5Hz a 20kHz (+/- 3dB)	Net weight	0.3Kg
Input sensivity	0.5V to 6V	Gross weight	0.4Kg
Operating voltage	10VDC to 16VDC	Lenght	115mm (4.5")
Dumping factor	400	Width	100mm (3.9")
THD	0.01% THD+N @ 60W	Heigth	35mm (1.4")

SD250.2D	CAPACIDADE
Minimum capacity of the battery	30A
Recommended fuse/circuit breaker	30A
Size of recommended power cable	6mm ²
Size of recommended speaker cable	1.5mm ²



Wiring connections



Warning: Never use the high in input and RCA input together. If the main unit have RCA output, use only this output, if doesn't have, use the high output.

Protection and monitoring systems

Soundigital amplifiers are micro-controlled. You can check the diagnostic of the monitoring of the electronic functions through the LED Installed inside of the amplifier.

<p>3 Blinks</p>  Three light bulbs are shown in a row, each with a small sunburst above it, indicating they are lit.	<p>It indicates the input tension is under 10 volts.</p>
<p>4 Blinks</p>  Four light bulbs are shown in a row, each with a small sunburst above it, indicating they are lit.	<p>It indicates a short circuit or low output impedance.</p>

LIMITED WARRANTY

SounDigital warrants the original purchaser that this product shall be free of defects in materials and workmanship for a period of twelve (12) months from the original date of purchase. Some countries have extended warranty in case the product is installed by an authorized dealer. This warranty is not transferrable and applies only to the original customer from an authorized SounDigital dealer.

- Defect or problem caused by misuse of the product;
- Incorrect installation or non-conformity with the Manual;
- Maintenance made by unauthorized personnel;
- Alteration or removal of the seal/serial number;
- Exposure to adverse conditions (weather, humidity, etc);
- Damage caused by fall, impact or natural depreciation, caused by transport and/or handling, risks, or smashings;
- Product was purchased more than 12 months ago.

Warranty covers:

- Component or material with manufacturing defects;
- Workmanship/service needed to repair the equipment;
- If you need service on your SounDigital amplifier, send it to SounDigital's Amplifier Repair Center through an authorized SounDigital dealer (must be accompanied by proof of purchase);
- Any extra information you can get by contacting us at the e-mail address: info@sounddigitalusa.com;
- In case of manufacturing defect or bad quality of raw material the max compensation will be the replacement of the product, not allowing any kind of compensation payment;
- New modifications/iterations on a product don't obligate the manufacturer to modify products formerly produced.