



POWER

35000.1D

CONTEÚDO DA EMBALAGEM // PACKAGE CONTENTS

1 Amplificador 35000.ID POWER	1 35000.ID POWER Amplifier
1 Manual do Proprietário	1 Owner's Manual
1 Chave Allen 2,5mm	1 Allen Wrench 2.5mm
1 Chave Allen 4mm	1 Allen Wrench 4mm
1 Adesivo Promocional	1 Promotional Sticker



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Dear Customer,

Congratulations on acquiring your **SoundDigital!**

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

State of Art

The POWER Line is the state of art in audio reproduction. Deep bass, precise midranges and nice highs are guaranteed by the high technology implemented in this line.

Amazing Bass

The innovative Twin Source 2.0 system guarantees much more stability in the audio reproduction, with the use of two twin power supplies.

Live Show

With the NST (Noise Suppression Technology) system in the RCA inputs, you will have a much cleaner sound, totally noise free. We implement a new input topology, with more efficient filters and isolators, that not only suppress any noise, but also guarantees a very clean signal.

Feel the Power

Real power is what you will find in the POWER Line. Amplifiers that range from 400W RMS to 35000W RMS make this line the most powerful in the world.

Thermal Efficiency

New aluminum heatsink with more mass and forced venting systems makes the POWER Line even more efficient and robust. You will have an efficient system with low distortion for a much longer period.

Efficiency

The POWER Line uses Class D topology, together with high thermal efficiency, which result in a very high efficiency overall (>70%). You will have less battery consumption, which means more power for a much longer period.

Low EMI Interference

We made the impossible, possible! Even our 35000.1D Power has a very low EMI interference. This means they can be easily clamped in measuring tools such as *TermLab**.

**TermLab* is a trade mark by Harris, Wayne - Carson City-NV

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 **SoundDigital** original accessories for a better performance. The crossovers, power supplies and voltmeters offered by **SoundDigital** 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.



Warning!

This "Warning" sign alerts the user of important info. Not following this instructions may cause injuries to the user or damage to the equipment.

ADDITIONAL INFORMATION

PACKAGE CONTENTS

- 1 35000.1D POWER Amplifier
- 1 Owner's Manual
- 1 Allen Wrench 2.5mm
- 1 Allen Wrench 4mm
- 1 Promotional Sticker

CONTACT CHANNEL

Customer Service

+1 786-600-1056
info@sounddigitalusa.com

Tech Support

info@sounddigitalusa.com

Website

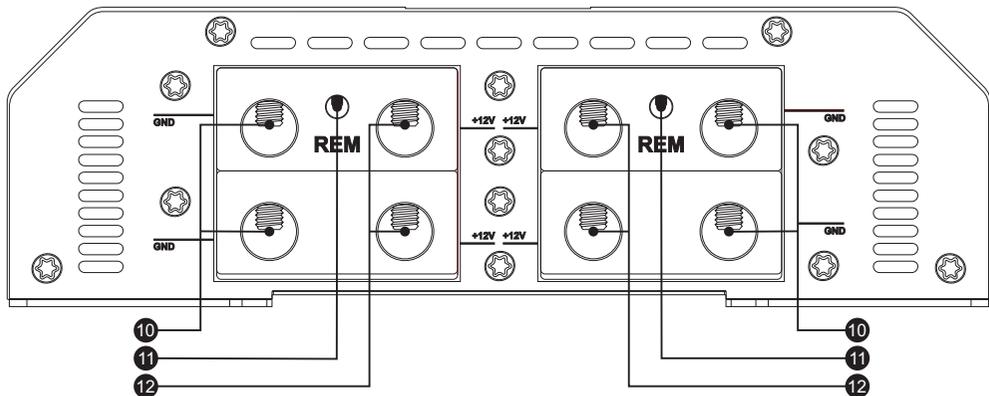
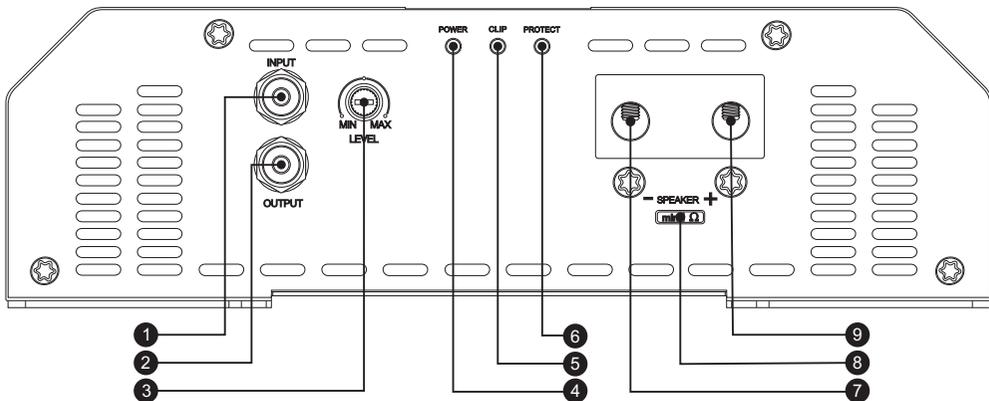
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Social Media

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35000.ID POWER



- | | |
|---|--|
| <ul style="list-style-type: none"> ① Audio Input RCA connector; ② Audio Output RCA connector; ③ Variable signal gain control; ④ "Power On" LED indicator (Blue); ⑤ "CLIP" LED indicator (Yellow); ⑥ "Protection" LED indicator (Red); | <ul style="list-style-type: none"> ⑦ Negative speaker connector (-); ⑧ Minimum speaker load allowed (impedance); ⑨ Positive speaker connector; ⑩ Negative power supply connector (GND); ⑪ Remote power supply connector; ⑫ Positive power supply connector (+12V). |
|---|--|

Electrical Dimensioning

For proper operation your amplifier needs the correct size of cables and batteries.



Warning!

The protection fuse or circuit breaker must be installed at a max distance of 30 cm (1 foot) from the battery.

Minimum capacity of the battery	2971Ah
Recommend capacity of the battery	3000Ah
Size of recommended cable	4 X 00 AWG/67mm ²

*To achieve the capacity of protection needed, more than one fuse/circuit breaker can be linked for the battery connections to the amplifier and ground, use good quality copper cables. **CCA cables should not be used.**



Warning!

Unplug the negative (-) terminal of the battery before proceeding with any electrical installation in the vehicle to avoid fire starts, wounds or damage to the amplifier.

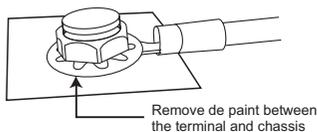
Installation Tips



Warning!

The 35000.1D Power should be connect to +12VDC to +18VDC only during competition. After judging or testing the fuses or circuit breakers should be turned off.

- ▶ The ground cable should be the shortest possible and should be connected to the chassis of the vehicle. The surface should be sanded at the contact point to create a clean, metal-to-metal connection between the chassis and the termination of the ground wire;



- ▶ Keep the RCA cables together, but away from the power or the audio output cables and away from electric equipment such as electronic fuel injection centrals, electric engines, etc;



Warning!

You should never connect or disconnect RCA cables with the amplifier on, because it may damage the headunit or the amplifier.

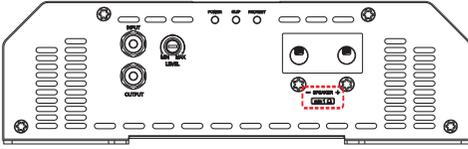
- ▶ Use loudspeakers with power and impedance compatible with the amplifier.

Safety Instructions

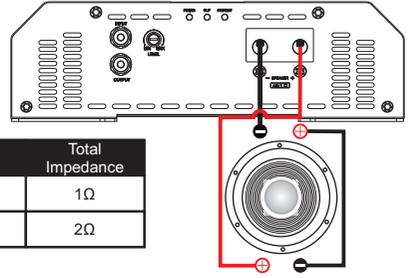
- ▶ To prevent injuries to the user or damage to the amplifier, read all the safety instructions written on this manual;
- ▶ If you're insecure about the installation of this equipment, get in touch with our tech support or with a professional specialized in car audio installation;
- ▶ Before proceeding with the installation of any electric equipment on your vehicle, unplug the negative (-) terminal of the battery to avoid fires, injuries or damages;
- ▶ Use your sound system safely. The continuous exposure to sound pressures over 85dB may cause irreversible hearing damage;
- ▶ This equipment is for use in automotive DC voltage batteries between 12.6 and 14.4 volts. Before installing the equipment, check the voltage of the batteries;
- ▶ Do not install the amplifier in places exposed to water, dirt or humidity;
- ▶ Choose a ventilated place to install the amplifier and avoid blocking the side ventilation windows;
- ▶ Fix the amplifier in a steady and proper way. Avoid fixing it in metallic parts of the vehicle, because it may cause ground looping (noise);
- ▶ Make sure the location chosen for the amplifier installation does not affect the operation of the vehicle;
- ▶ When passing cables through metallic walls, use rubber O-rings to avoid cable cutting and short-circuits. Make sure the place chosen for the installation of the amplifier will not interfere with the proper working of the vehicle;
- ▶ Clean the amplifier periodically with a brush or dry cloth to assure the thermal efficiency of the heatsink;
- ▶ This product may reach temperatures over 60°C/140°F. Make sure it is cold before touching it;
- ▶ Be careful when making holes in the vehicle. Make sure you're not making holes in the fuel tank, brake lines or electrical cables of the vehicle;
- ▶ Make sure the cables are properly fixed throughout the installation;
- ▶ Wear gloves, safety glasses and all necessary PPE during the installation of **SounDigital** amplifiers.

Speaker Connection

It is important to observe the minimum working impedance for the 35000.1D to work properly.



Voice Coil	Total Impedance
$4\Omega + 4\Omega$	1Ω
$8\Omega + 8\Omega$	2Ω



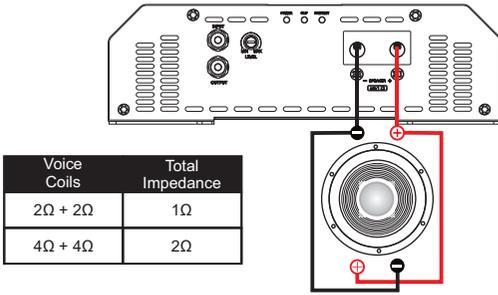
Never connect the speakers under the nominal impedance of the amplifier.

Warning!

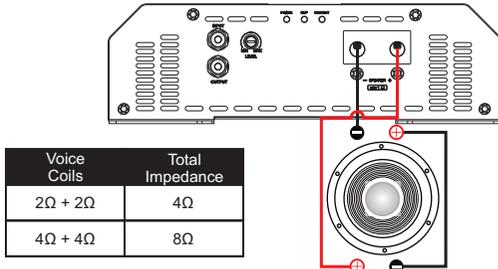
Loudspeakers an Voice Coils Connections

Double Voice coil subwoofers.

One subwoofer with coils wired in parallel



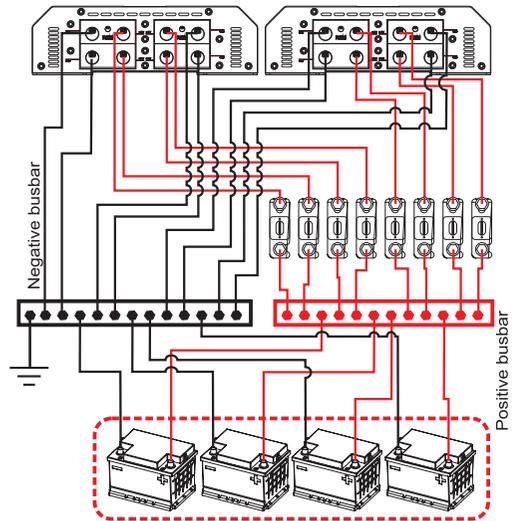
One subwoofer with coils wired in series.



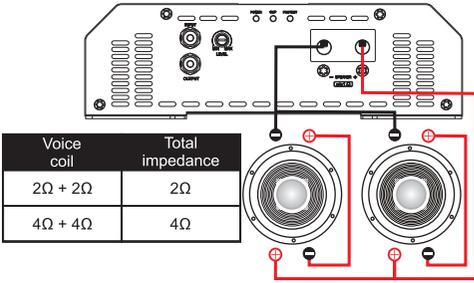
Two subwoofers with coils wired in parallel:

Multiple Batteries Connections

It is recommended the use of copper busbars for the connections of multiple batteries. The bars must have equidistant holes for a balanced distribution of batteries and amplifiers in order to avoid an unbalanced heating.

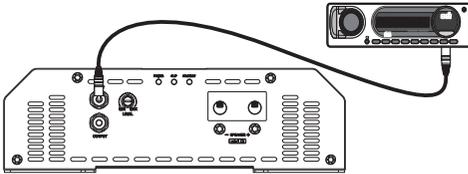


Two subwoofers with voice coils wired in parallel / series:

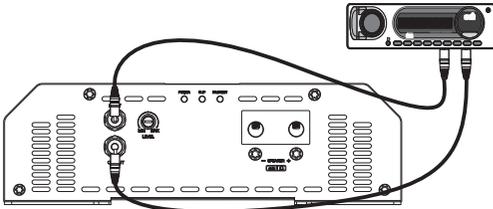


Input Connection

Example of connection using only one RCA cable.

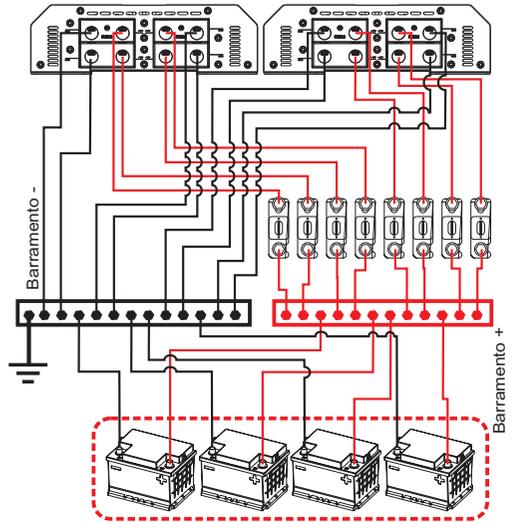


Example of connection with two RCA cables:



Multiples Batteries Connections

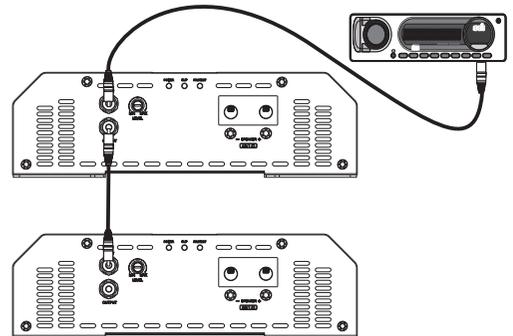
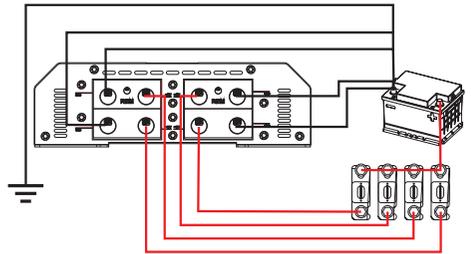
It is recommended the use of cooper busbars for the connections of multiple batteries. The bars must have equidistant holes for a balanced distribution of batteries and amplifiers in order to avoid an unbalanced heating.



Example of connection using only one RCA cable, while using the RCA output to connect another amplifier.

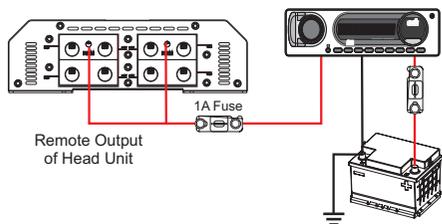
Power Connections

Simplified power connections diagram.

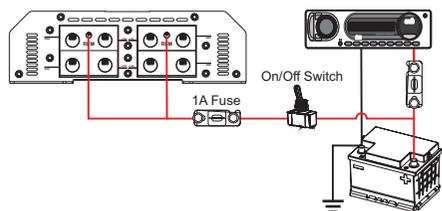


Remote Input Connection

Connection through the remote output of the head unit:



Connection through an On/Off Switch



Installation Sequence

- ▶ Before proceeding with the installation, unplug the negative from all of the batteries;
- ▶ Affix the amplifier in such a way you have access to the connectors;
- ▶ Install the power cables on the vehicle in a proper way. From the battery to the busbar, fuse holder or circuit breaker. Chose the appropriate section for the cable (see Table 1). Make all of the connections to the busbars, fuse holders or circuit breakers, with no fuses in the holder and with the circuit breakers in the "Off" position;



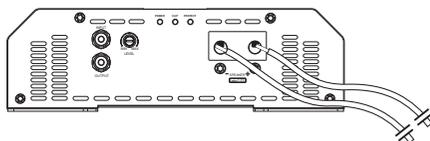
The max. distance for the installation of the fuse/circuit breaker is one foot away from the battery.

- ▶ Connect the power cables in to the amplifier, observing the polarity. Connect all the positive cables from the fuse holder or circuit breaker to the positive connector of the amplifier and all the negative power cables from the busbar or from the batteries, to the negative connector of the amplifier;
- ▶ Install the signal input cables in a proper way, distant from the power cables;
- ▶ Connect the RCA to the head unit and amplifiers;

- ▶ Install the audio output cables with the appropriate section (see table 2), distant from the power and audio input cables;
- ▶ Connect the audio output cables to the amplifiers and the acoustic boxes, observing the positive (+) and negative (-) polarities;
- ▶ Install the remote cable with the power cables, using a section of 1.5mm² or thicker;
- ▶ Connect the remote cable to the two REM terminals on the amplifier and to a 12V power supply activated by a switch key or to the remote power output of the head
- ▶ Before powering the system, verify all the connections and make sure there are no mistakes or short-circuits on the power and ground cables;
- ▶ Reconnect the ground of the batteries;
- ▶ Check if the remote key is in the "Off" position and if the head unit is turned off, then place the fuses in the fuse holders or switch the circuit breakers on;
- ▶ Check if gain is set to minimum. Turn on the head unit and/or the remote switch to power on the amplifier. The three LEDs will light up for approximately 1 second. After that, only the power LED will remain on.

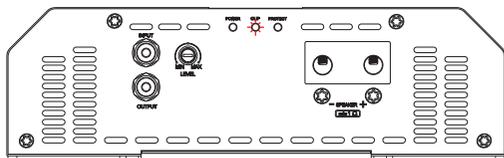
Procedures for Setting the Gain

- ▶ To set the gain of your amplifier properly, follow the steps below;
- ▶ Disconnect the output cables from the amplifier outputs;
- ▶ With the gain set to minimum, turn on the head unit and the remote switch to power on the amplifier. Wait until only the power LED is on;



- ▶ Reproduce a 60Hz sine wave signal through the head unit;
- ▶ Set the volume of the head unit to about 70% of its capacity.

- ▶ Turn up the gain clockwise slowly until the "CLIP" LED starts blinking;



- ▶ Return the gain to the limit where the "CLIP" LED stops blinking and remains off.

Protection and Monitoring Systems

- ▶ **SounDigital** amplifiers are microcontrolled. You can check the diagnostic of the monitoring of the electronic functions through the LED panel Installed on the side of the amplifier;
- ▶ Blue LED on with the audio playing normally: It indicates the amplifier is working properly;
- ▶ The audio is interrupted, blue and red LEDs start blinking: It indicates the input tension is over 20 volts;
- ▶ The audio is interrupted, blue LED start blinking: It indicates the input tension is under 9 volts;
- ▶ The audio is interrupted and the yellow LED starts blinking: It indicates a short circuit or low output impedance;
- ▶ Yellow LED blinking on the rhythm of the music: It indicates distorted signal on the output. Lower the gain or the volume of the head unit;
- ▶ The audio is interrupted and the red LED is constantly on: It indicates the amplifier has reached over 80°C/176°F and gone into thermal protection. Suspend the audio reproduction from the head unit and keep the amplifier on until the red LED goes off;
- ▶ Interrupted audio and red LED blinking: It indicates an electronic failure on the PCB. Talk to our tech support and look for the nearest tech assistance to solve the problem.

Declaration of Conformity



J. Anflor Eletrônicos - ME
Gravatá - RS
Brazil

Declare in own responsibility that the products described in this owner's manual are in compliance with technical standards:

- EN 60065:2002+A1:2002+A11:2008+A2:2010+A12:2010

- IEC 60065:2014-06




Juliano Anflor
J. Anflor Eletrônicos
Brazil

Table 1 - Power Conductors

Power in Watts RMS	40.000W	A	A	2 x A*	2 x A*	4 x A*	4 x A*	6 x A*
	35.000W	A	A	A	2 x A*	4 x A*	4 x A*	6 x A*
	30.000W	B	A	A	A	2 x A*	4 x A*	4 x A*
	25.000W	B	B	A	A	A	4 x A*	4 x A*
	20.000W	B	B	B	A	A	2 x A*	4 x A*
	15.000W	B	B	B	A	A	2 x A*	4 x A*
	12.000W	B	B	B	A	A	2 x A*	2 x A*
	8.000W	B	B	B	B	A	A	2 x A*
	6.500W	C	B	B	B	B	A	2 x A*
	5.000W	C	B	B	B	B	B	A
	4.000W	C	C	B	B	B	B	B
	3.000W	D	C	C	C	C	C	B
	2.500W	D	D	C	C	C	C	C
	2.000W	E	E	E	E	D	D	C
	1.600W	F	F	E	E	E	D	D
	1.200W	G	G	F	F	E	E	E
		0-3.28	3.2-6.3	6.5-9.8	9.8-13.1	13.1-16.4	16.4-19.6	19.6-22.9
	Cable length (ft)							

Section

REF.	AWG	mm ²
A	00	67.4
B	1/0	53.5
C	2	33.6
D	3	26.6
E	4	21.2
F	5	16.8
G	6	13.3

*All cables shall be doubled with the aid of an adapter or busbar.

Table 2 - Power Conductors

Power in Watts RMS	40.000W	F	F	F	F	F	F	F
	35.000W	F	F	F	F	F	F	F
	30.000W	G	F	F	F	F	F	F
	25.000W	G	G	F	F	F	F	F
	20.000W	G	G	G	F	F	F	F
	15.000W	G	G	G	G	F	F	F
	12.000W	H	G	G	G	G	G	F
	8.000W	H	H	H	G	G	G	G
	6.500W	H	H	H	H	G	G	G
	5.000W	H	H	H	H	H	G	G
	4.000W	I	H	H	H	H	H	H
	3.000W	I	I	I	H	H	H	H
	2.500W	I	I	I	I	H	H	H
	2.000W	J	I	I	I	I	I	H
	1.600W	J	J	J	I	I	I	I
	1.200W	J	J	J	J	J	I	I
		0-3.28	3.2-6.3	6.5-9.8	9.8-13.1	13.1-16.4	16.4-19.6	19.6-22.9
	Cable length (ft)							

Section

REF.	AWG	mm ²
F	5	16.8
G	6	13.3
H	8	8.3
I	10	5.2
J	14	2.0

RMS Power - CTA 2006 @ 40Hz

35000.1D POWER

Impedance	1Ω	2Ω	4Ω
Power @ 14.4V	35000W	19250W	10587W

Power Supply

Operating Voltage	9VDC ~ 18VDC
Current Draw (Max)	2971A
Total Efficiency (Source+Output)	81.8%

Input Signal and Filters

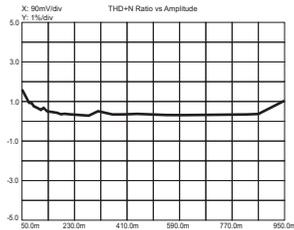
Input Sensitivity	0.5V ~ 8V
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Audio Specs

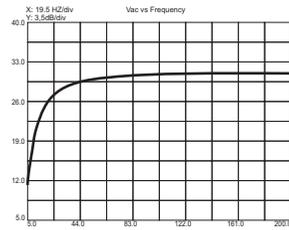
SNR (LPF 15kHz / Nominal Power)	75dB
THD + N (Nominal Impedance / 100Hz / LPF 15kHz / 10% of Nominal Power)	0.3%
Frequency Response (+/-3dB)	20Hz ~ 18kHz
Damping Factor (Nominal Impedance @100Hz)	>100

Graphics

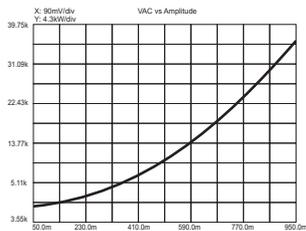
THD x Input Amplitude



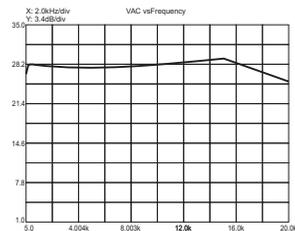
Frequency Response < 200Hz



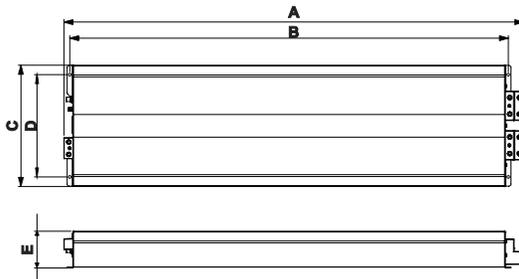
Power x Input Amplitude



Frequency Response 5Hz to 20kHz



Dimensions



A	858.7mm
B	819.1mm
C	224.7mm
D	189.7mm
E	68.1mm
28.6lbs (13kg)	

LIMITED WARRANTY

SoundDigital 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 transferable and applies only to the original customer from an authorized **SoundDigital** dealer.

Warranty is void when:

- 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;
- Products 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 **SoundDigital** amplifier, send it (freight-prepaid) to **SoundDigital's** Amplifier Repair Center through an authorized **SoundDigital** 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.





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