



INSTALLATION AND OPERATION MANUAL

DIGITAL CLASS-D SINGLE CHANNEL AMPLIFIER

SP-DA1000

SP-DA1500



Important Safety Information

1. Read these instructions.
2. Keep these instructions.
3. Heed all warnings.
4. Follow all instructions.
5. Do not use this apparatus near water.
6. Clean only with dry cloth.
7. Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
8. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
9. Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong is provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
10. Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
11. Only use attachments/accessories specified by the manufacturer.
12. Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.
13. Unplug this apparatus during lightning storms or when unused for long periods of time.
14. Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.
15. This appliance shall not be exposed to dripping or splashing water and that no object filled with liquid such as vases shall be placed on the apparatus.
16. Plug this apparatus to the proper wall outlet and make the plug to be disconnected readily operable.
17. Main plug is used as disconnected device and it should remain readily operable during intended use. In order to disconnect the apparatus from the mains completely, the mains plug should be disconnected from the mains socket outlet completely.
18. **WARNING:** To reduce the risk of fire or electric shock, do not expose this apparatus to rain or moisture.
19. An appliance with a protective earth terminal should be connected to a mains outlet with a protective earth connection.

Safety Warning

WARNING!

TO PREVENT FIRE OR SHOCK HAZARD, DO NOT USE THE PLUG WITH AN EXTENSION CORD, RECEPTACLE OR OTHER OUTLET UNLESS THE BLADES CAN BE FULLY INSERTED TO PREVENT BLADE EXPOSURE.

TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.

TO PREVENT ELECTRICAL SHOCK, MATCH WIDE BLADE PLUG TO WIDE SLOT, FULLY INSERT.



The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

CAUTION

RISK OF ELECTRIC SHOCK
DO NOT OPEN

WARNING: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.



The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

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Introduction

Features:

- Switching power technology digital power amplifier
- Class-D PA power amplifier of minimum power consumption
- Less rack space and less heat generation
- Single channel power amplifier into 19" rack mount unit
- Rated power output at 1000W, 1500W
- Separate speaker outputs 8Ω/100V
- Balanced XLR input by Charon connector
- Built-in auto standby feature to save power consumption
- Separate channel indicators for protection, clip, input and output
- Complete short circuit, overload, high temp, and clip
- AC input from 110V or 230V input
-

Description:

The SP-DA range digital class-D power amplifier is of switching power technology, which features of minimum power consumption and much higher efficiency up to 85%, moreover it helps to save installation rack space, generate less heat so as to extend its performance life span as a result.

The digital class-D amplifiers are of rated power output at 1000W, 1500W, so it could be used as digital public address system at minimum cost. The versatile loudspeaker outputs of both high impedance 100V & low impedance 8ohms enable it meet both PA fixed installation and Hi-fi stereo sound installation jobs.

There is one balanced input by charon connector for each channel. The zone speaker output both by 100V & 8ohms.

Front Panel



1. VOLUMN CONTROL

2. LED Indicator

a) Port&Clip

Protection indicator will light on in orange once the amplifier comes into protection status. The protection maybe resulted from speaker line short circuit, speaker line open circuit, amplifier overload and inner working temperature over 55°C, this indicator give visually guidance ask for repair and It will light off once these failures been repaired. There are two separate protection indicators for each two channels.

Clip indicator will light on in red once the input or output is too high. There are two separate CLIP indicators for each two channels.

b) -10DB

-10DB will light on in green once there is any input signal increase

c) SIG

SIG indicator will light on in green once there is input signal has been passed.

d) ON

Power indicator will be on when power on the equipment.

3. Power switch

Power indicator will be on when power switch on.

Rear Panel



1. AC POWER CORD

AC power cord for input from 110V to 230V, the power cord itself is auto-switching.

2. LINK

The line output to next power amplifier to have the same signal input.

3. Signal input

The Signal input is used to adjustment the input sensitivity from various inputs so as to have the best response. There are two separate gain control for each channel.

4. Fan

Fans for cooling

5. 100V SPEAKER OUTPUT

The speaker outputs shall be connected to 100V line loudspeakers, the negative end to the speaker negative end and the positive end to the speaker positive end. There are two channel separate 100V speaker outputs which could be managed respectively. These speaker output are supplied in phoenix connector.

Never mixed the negative end and the positive one, which may cause the short circuit protection.

Never connection the low impedance loudspeaker to these 100V ends, which may burn up the speaker or have heavy distortion.

6. 8Ω SPEAKER OUTPUT

The speaker outputs shall be connected to low impedance 8Ω loudspeakers, the negative end to the speaker negative end and the positive end to the speaker positive end. There are two channel separate 4Ω speaker outputs which could be managed respectively. These speaker output are supplied in phoenix connector.

Never mixed the negative end and the positive one, which may cause the short circuit protection.

Never connection the 100V line loudspeaker to these 4Ω ends, which may burn up the speaker or have heavy distortion.

Specifications

Model	SP-DA1000	SP-DA1500
Description	Single Channel Class-D Power Amplifier	
Rated Power Output	1000W	1500W
Speaker Output	4-16 Ω & 100V	
Frequency Response	40Hz-16KHz (+1/-2dB)	
Input	1V, 0dBu, Charon connector	
Input Impedance	10K Ω	
THD	<0.1% (1KHz/-3dBv, 100W)	
S/N Ratio	>80dB	
Crosstalk	>60dB, 1KHz, Max output	
Power Consumption	1150W	1775W
Power Supply	Wide AC input 230V, 50-60Hz	
Dimension	483(W)x375(D)x44(H) mm	
Weight	7.6kg	9.6kg
Warranty	3 years warranty and free spare parts	

Service & Warranty

Service

Procedures

Ensure the problem is not related to operator error, or system devices that are external to this unit. Information provided in the troubleshooting portion of this manual may help with this process. Once it is certain that the problem is related to the product contact your warranty provider as described in the warranty section of this manual.

Schematic

A Schematic is available by contacting your warranty provider.

Parts List

A Parts List is available by contacting your warranty provider.

Variations and Options

Variations

Products supplied through legitimate sources are compatible with local AC power requirements.

Options

No optional items are available for this product.

Warranty

Warranty terms of global three years. While the term and warranty may vary by country and may not be the same for all products. Terms and conditions of warranty for a given product may be determined first by locating the appropriate country which the product was purchased in, then by locating the product type.

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Specifications may change without pre-notice.