

MASSIVE[®]

POWER SUPPLY

HPS100



Introduction

Congratulations!

And thank you for purchasing a "Massive Audio" Power supply for your car audio system. You now own a Power supply of uncompromising design and engineering that incorporates the latest advances in technology. This handcrafted Power supply is designed to deliver the demands of serious sound competitors. You will soon discover that the Power supplies display a fine balance between high quality, performance and reliability; all proven qualities of "Massive Audio" products.

"Massive Audio" Power supplies are the result of American Craftsmanship using only the highest quality components and quality control standards. In order to provide you with many years of listening pleasure, we recommend that you have your new Power supply installed by an Authorized "Massive Audio Dealer."

This will ensure the proper installation of your product, and will also increase the length of your warranty to **ONE YEAR**. (Please see the warranty section of this manual for more details.)

Please take a moment to thoroughly read this manual to ensure that you get the maximum benefit from this new addition to your car audio system. When installed properly, this unit will provide years of trouble free performance.

Should your Power supply ever need service or replacement due to theft, please record the following information, which will help protect your investment.

Model #:

Dealer's Name:

Date of Purchase:

Installation Shop and Date:

Specifications

Input Voltage	115V-230V AC $\pm$ 10%
Adjustable Output	9V-16V DC $\pm$ 0.5Volts
Output Current	100 Amps DC Continuous (Maximum)
Line Regulation	$\pm$ 5%
Load Regulation	$\pm$ 5%
Efficiency	$\pm$ 85%
Overload Protection	FUSE 15A/250V
Output Ripple	150 mV RMS
Design	Switching Type
Protection Temperature	75°C
Cooling Fan	3pcs (30x30x10mm)
Input Cable	SVT 14 AWG 85 C 6 Feet
Power Switch	15A 250V AC
Dimensions	302.4 x 190 x 55 mm

Features

The **HPS100** uses AC power to power equipment that requires 9~16V DC power.

The **HPS100** converts standard 115~230V AC household power to an adjustable 9~16V DC power, and supplies up to 100 amps of continuous power.

Note: A normal vehicle's electrical system provides around 13.8 Volts when the engine is running.

The **HPS100** is a versatile piece of equipment that can be used in several applications such as retail audio displays, show cars, and test benches.

The **HPS100** features include:

- Adjustable regulated output voltage 9~16V
- Up to 100 amp output current
- Cooling fans
- Thermal overload shut off protection
- Current overload shut off protection
- Combo output connectors act as both binding posts and banana plug terminals
- Pulse charging to inhibit battery sulfation
- Battery Charging Function with Auto Turn-Off



Important Safety Instructions

This manual contains important safety and operating instructions for the **HPS100**. To reduce the risk of fire, electric shock, and injury to person or equipment; carefully read the following before you use the power supply. Please read all cautionary markings on both the **HPS100** and on the product that you will connect to the power supply.

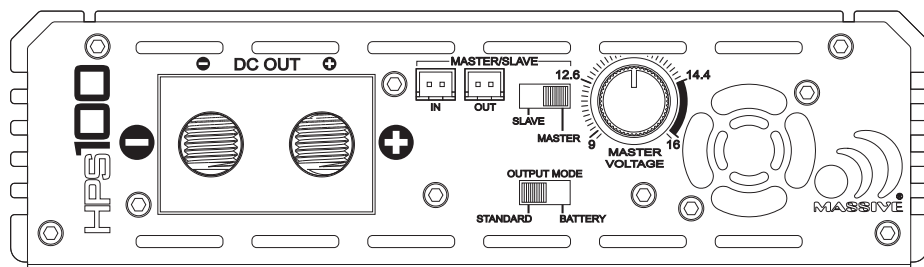
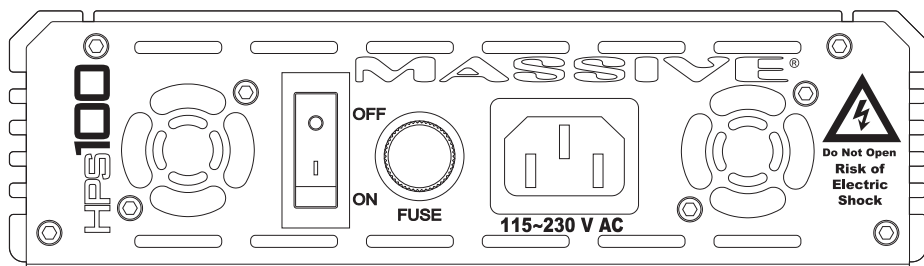
WARNINGS:

- This product is not recommended for outdoor use.
- Do not expose the power supply to excessive moisture.
- Do not set the output voltage higher than 2 Volts over the resting battery voltage.
- This product is not intended to be used as a stand alone battery charger. It is designed for the purpose of providing supplemental power when a DC power generator isn't available.
- Do not connect the power supply to a battery that is deeply discharged. The initial high level of current draw will force the power supply into current limit mode for prolonged periods. This type of use is harmful to the power supply.
- When used as a supplemental power supply, the power supply will not damage connected batteries. When a connected battery reaches a fully charged state the power supply will decrease its output current to a safe level by degree, or shut off.
- The power supply should not be left connected to batteries for extended unattended periods of time. This could result in damage to the connected batteries.
- Make sure the power supply is securely mounted to avoid injury or damage to the unit.
- The power supply should be operated only from a standard AC outlet that provides 115V-230V AC, as indicated on the label.
- Do not overload AC power outlets to avoid danger of electric shock and fire. A minimum current of 15A will be required.
- Avoid using extension cords.
- The power plug is polarized for safety. Do not defeat the ground feature.
- Do not block or cover the power supply's cooling fan openings to avoid overheating.
- Unplug the power supply during lightning storms to avoid power surge damage.
- If your unit should require service or new parts contact the manufacturer. Do not attempt to service the unit.

Connections

CAUTION: Make all connections before you connect the power supply to AC Power.

1. Turn off the device requiring power.
2. Set the Power Switch to off.



3. Set the power supply to the correct output voltage for the device being connected.
4. Turn the sleeves of the red and black binding output posts counterclockwise to expose the wire hole.
5. Insert the device's positive wire into the red binding post wire hole, then tighten the binding post sleeve to secure the wire in place.
6. Insert the device's negative wire into the black binding post wire hole, then tighten the binding post sleeve to secure the wire in place.
7. If you are using a banana plug style connector, simply insert the plugs into the corresponding positive and negative terminal jacks.

To avoid risk of damage to both the power supply and the connected device:

- Verify and follow the correct polarity when connecting the power supply to the device
- Do not let the ends of the positive and negative wires touch each other
- The binding post wire holes can accommodate up to 4 gauge wire

8. Connect the power supply AC cord to a standard 115~230V AC outlet.

Operation

To use the power supply after you have correctly connected a device to it, flip the power switch to the on position. The blue LED should illuminate indicating the unit is on.

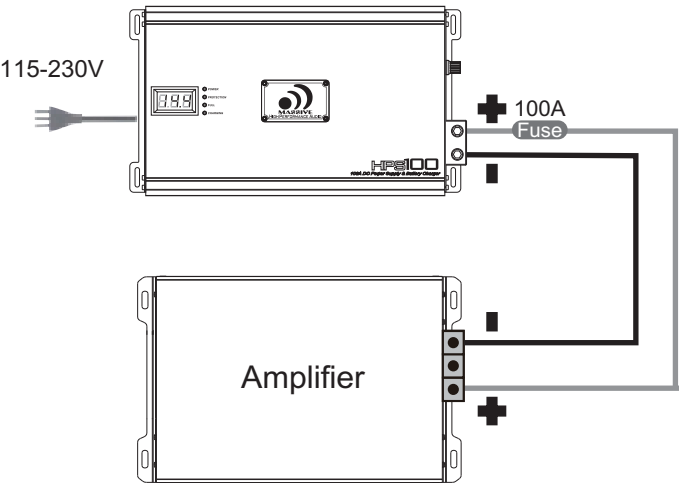
If the blue LED does not illuminate check all connections. If all connections are good turn the unit off and confirm the wall AC outlet has power. If the outlet has power disconnect the power supply from the device then turn the power supply on again. If the power supply now operates normally verify the connected device does not require more than 100 amps of current which will cause the power supply to go into protection.

Your power supply might cause TV or FM radio interference. To determine whether your power supply is causing interference, simply turn off your power supply. If the interference goes away, your power supply is causing it. Try moving your power supply away from the affected source.

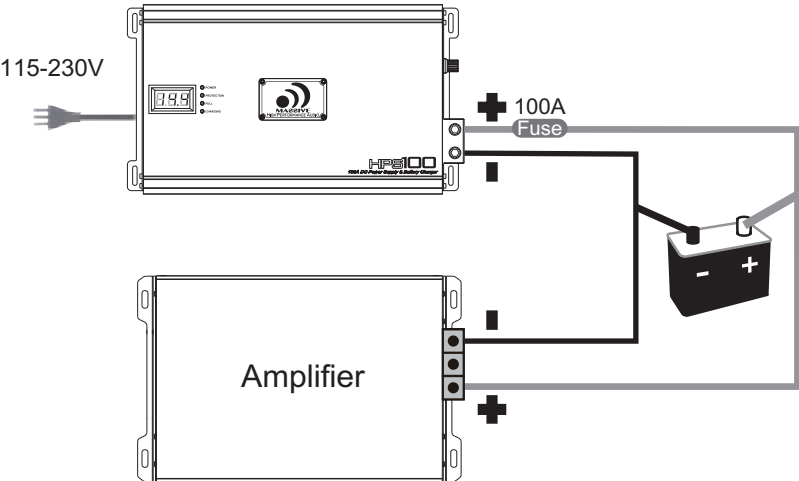
Example: Using a single HPS100

Fuse all connected devices as recommended by the manufacturer.

Direct Mode
Consistent 12V Output

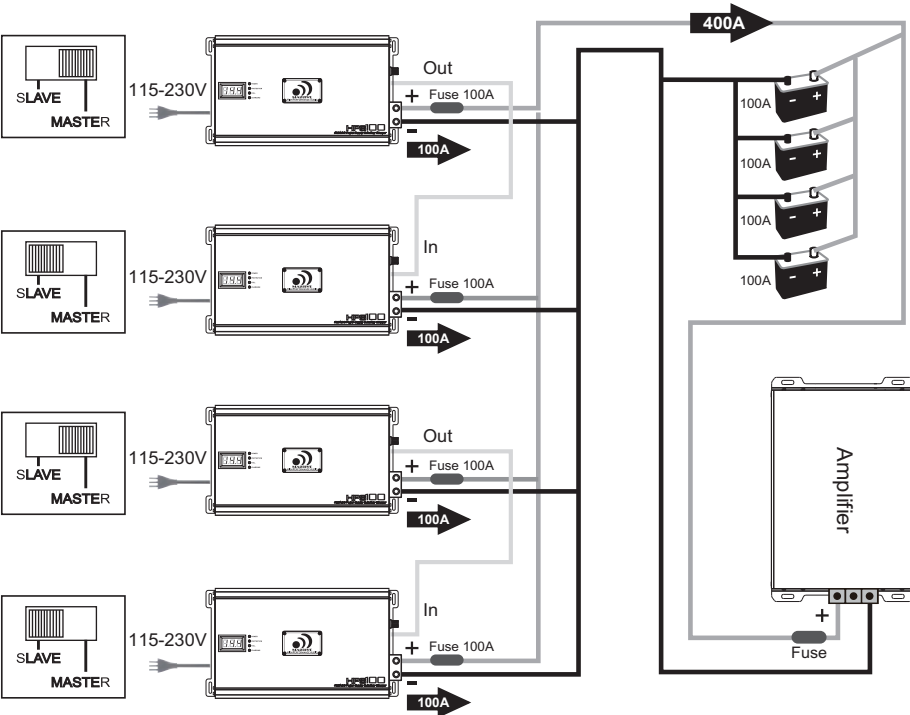


Charging Mode
Charge Battery at 12V



Example: Using multiple HPS100 in parallel with a single battery or multiple batteries (maximum current not exceeding 400A)

Up to four HPS100 can be connected in parallel. When using in parallel configuration, adjust all connected units to the same output voltage. The maximum available current will be determined by the sum of the rated capacity of each HPS100 in the circuit. In the example below the four parallel units of HPS100 will supply about 400A of current.



WARNING: Do not overload AC power outlets to avoid danger of electric shock and fire, A minimum current of 15A per HPS100 will be required. Avoid connecting multiple power supplies to a single AC outlet using power strips.

Warranty

Massive Audio, Inc. warrants all manufactured amplifier products to be free from defect in material and workmanship for a period not to exceed **ONE YEAR*** from the date of original purchase when installed by an authorized "Massive Audio" dealer. Units that are not installed by an authorized "Massive Audio" dealer maintain a warranty not to exceed 90days from the original purchase date by the original purchaser.

Products that display abuse such as power deficiency, over driving the amplifier or clipping the input require purchase of a new PCB for replacement.

"Massive Audio" obligations under this warranty are limited to repairing or replacing, at its own sole option, any such defective products. This warranty does not apply to equipment that has been damaged by accident, negligence, or misapplication or has been altered or modified in anyway. This warranty applies only to the original purchaser who must have properly registered the product within 30 days of purchase.

Except as provided herein, Massive Audio, Inc, makes no warranties or representations, express or implied, including any warranty implied bylaw, whether for merchantability or fitness for a particular purpose and shall be effective only for the period that this express warranty is effective. SEE THE WARRANTY REGISTRATION CARD TO ADDITIONAL INFORMATION.

*Due to constant improvement prices and specs are subject to change without prior notification.



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