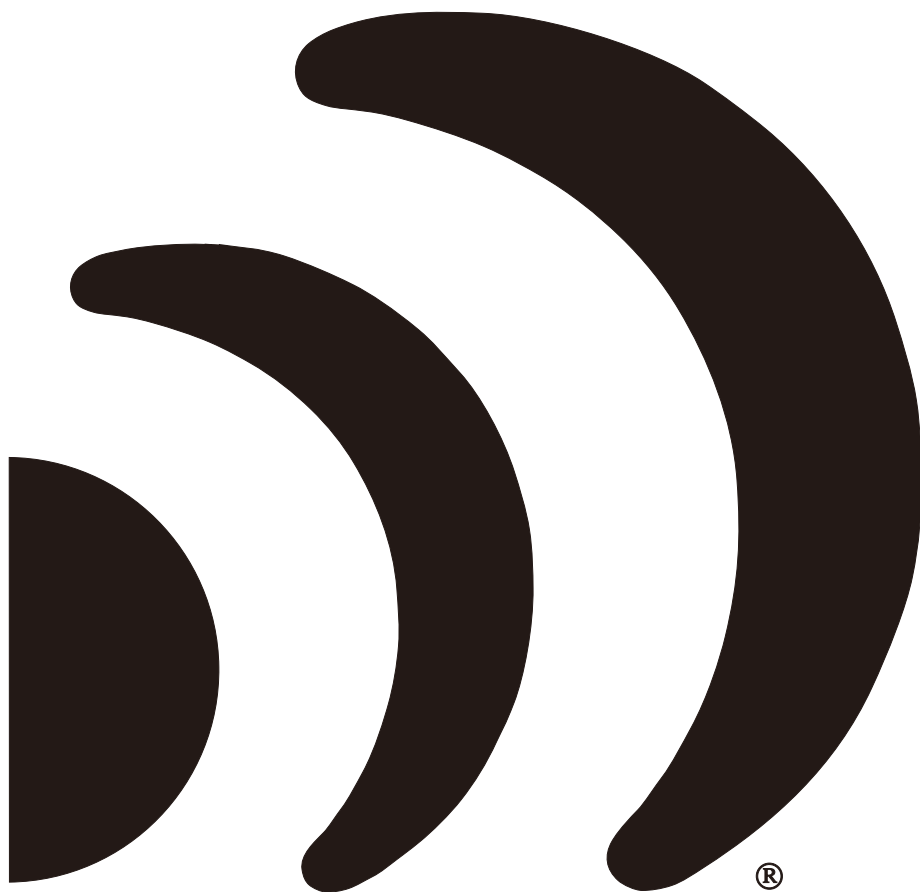


MASSIVE[®]

BLADE(BP) POWER SUPPLY

BP-PS 100



INTRODUCTION

Congratulations!

And thank you for purchasing a "Massive Audio" BLADE(BP) 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 "BLADE(BP)" 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: _____

DESIGN FEATURES

POWER SUPPLY:

- ✓ **ADJUSTABLE REGULATED OUTPUT VOLTAGE 10~16V**
- ✓ **UP TO 100AMP OUTPUT CURRENT**
- ✓ **COOLING FANS**
- ✓ **THERMAL/CURRENT OVERLOAD SHUT OFF PROTECTION**
- ✓ **COMBO OUTPUT CONNECTORS ACT AS BOTH BINDING POSTS AND BANANA PLUG TERMINALS**
- ✓ **REMOTE MOUNT LCD VOLTAGE DISPLAY**
- ✓ **LINK UP TO 4 UNITS FOR UP TO 400AMPS OF CURRENT**
- ✓ **THE BP-PS100 CONVERTS STANDARD 110-130V AC HOUSEHOLD POWER TO AN ADJUSTABLE 10~16V DC POWER, AND SUPPLIES UP TO 100 AMPS OF CONTINUOUS**
- ✓ **THE BP-PS100 IS A MULTI-PURPOSE UNIT GREAT FOR SHOW ROOM DISPLAYS, SHOW CAR EVENTS, DEMOS AND TEST BENCHES.**

BLADE



FUNCTIONS

1 . TEMP/PROTECTION INDICATOR

THIS LED WILL LIGHT UP WHEN POWER SUPPLY PROTECTION.

2 . POWER INDICATOR

THIS LED WILL LIGHT UP WHEN POWER SUPPLY WORKS PROPERLY.

3 . POWER SWITCH

TURN ON/OFF THE DEVICE REQUIRING POWER.

4 . AC OUTLET

CONNECT THE AC CORD TO A STANDARD 110~130V AC OUTLET.

5 . LCD VOLTAGE DISPLAY INTERFACE

CONNECT THE SUPPLIED LCD VOLTAGE DISPLAY PANEL TO THE PORT LABELED VOLT METER

6 . ADJUSTABLE OUTPUT KNOB

ADJUSTABLE REGULATED OUTPUT VOLTAGE 10~16V

7 . MASTER/SLAVE SWITCH

MASTER AND SLAVE PORTS ARE ONLY USED WHEN CONNECTING MULTIPLE POWER SUPPLIES TOGETHER.

8 . DC OUTPUT VOLTAGE INTERFACE

INSERT THE DEVICE'S POSITIVE/NEGATIVE WIRE INTO THE BINDING POST WIRE HOLE, THEN TIGHTEN.

9 . TEMPERATURE CONTROLLED FANS

THE POWER SUPPLY WILL GIVE OUT DIFFERENT AMOUNT OF HEAT WHEN USE IN DIFFERENT LEVEL. THE FANS RUN AT SPEEDS ACCORDINGLY TO REGULATE TEMPERATURE. THE FANS STAY OFF WHEN THE SURFACE TEMPERATURE OF THE UNIT REMAIN BELOW 50°C. WHEN THE CONTROLLED CIRCUIT SENSE A TEMPERATURE ABOVE 50°C, THE FANS START TO TURN AT HIGH SPEED TO BRING OUT HOT AIR. WHEN THE SURFACE TEMPERATURE EXCEED 75°C, THE THERMAL PROTECTION TRIGGER, THE FANS WILL STOP RUNNING, AND THE BLUE AND RED INDICATOR WILL LIGHT ON. THE UNIT COME BACK TO WORK ONLY AFTER THE SURFACE TEMPERATURE DROP TO 68°C.

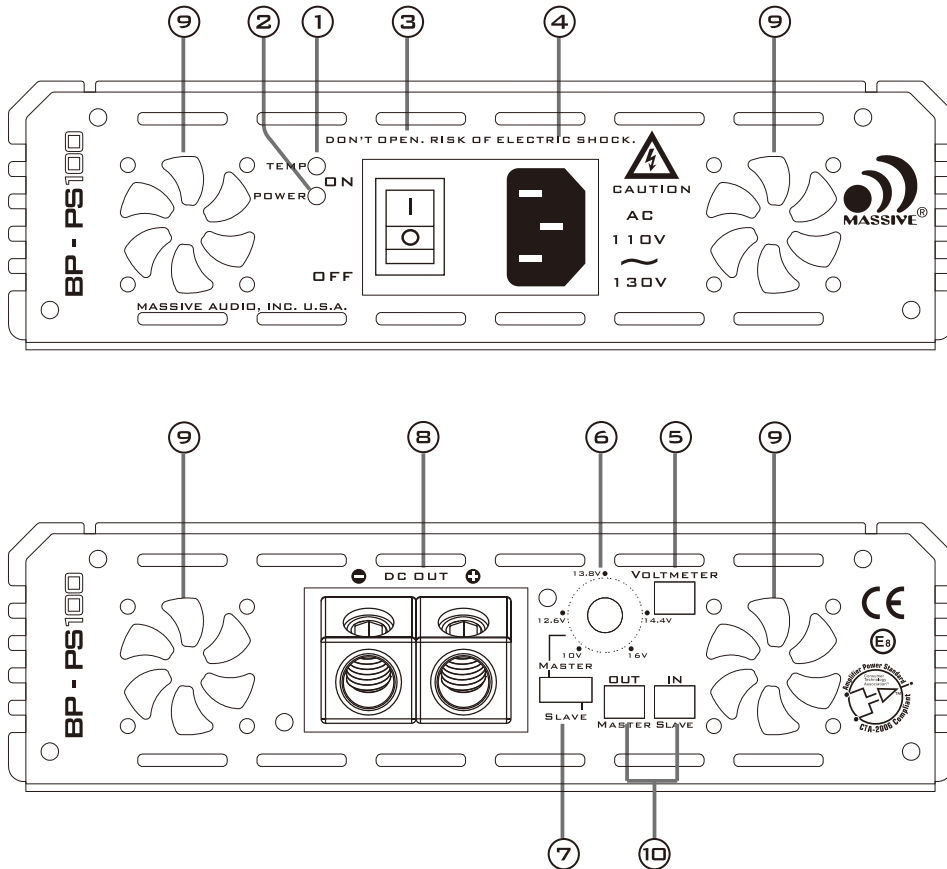
10 . MASTER/SLAVE INTERFACE

WHEN MULTIPLE MACHINES ARE USED, THEY CORRESPOND TO THE MASTER/SLAVE THE CONNECTION LINE ACCORDING TO THE OUTPUT OR INPUT

PANEL LAYOUT

FIG 2. POWER SUPPLY PANEL LAYOUT

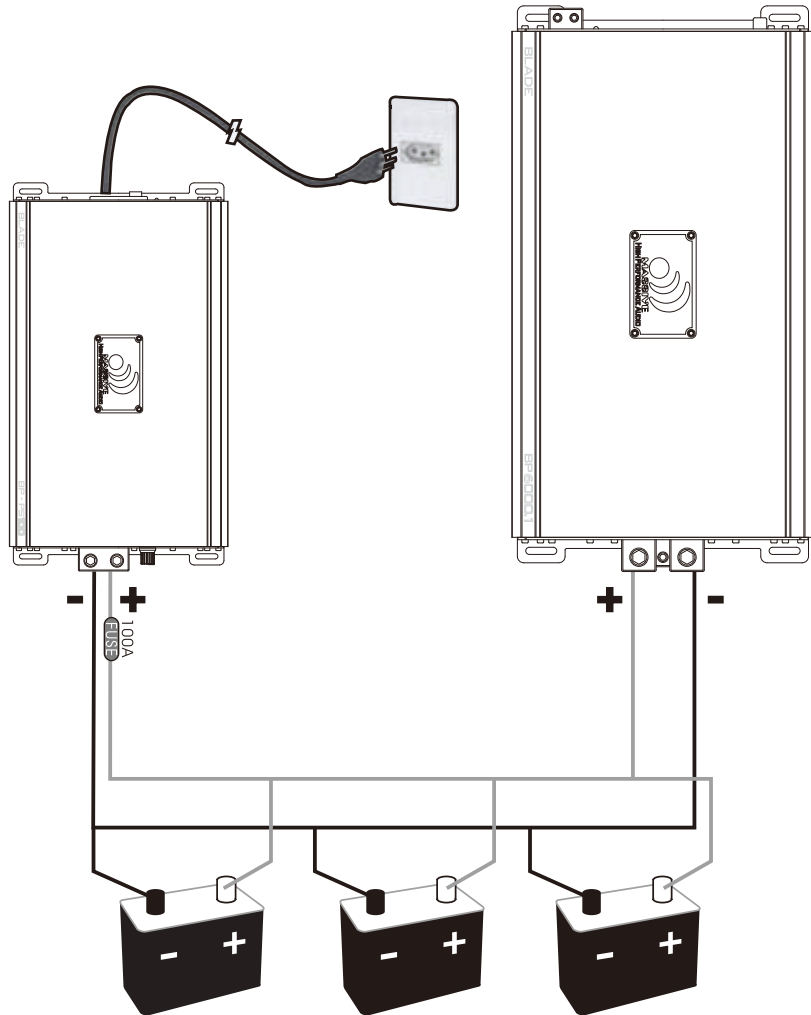
BP-PS100



WIRING DIAGRAM

FIG 4. WIRING MULTIPLE BATTERIES

BP-PS100



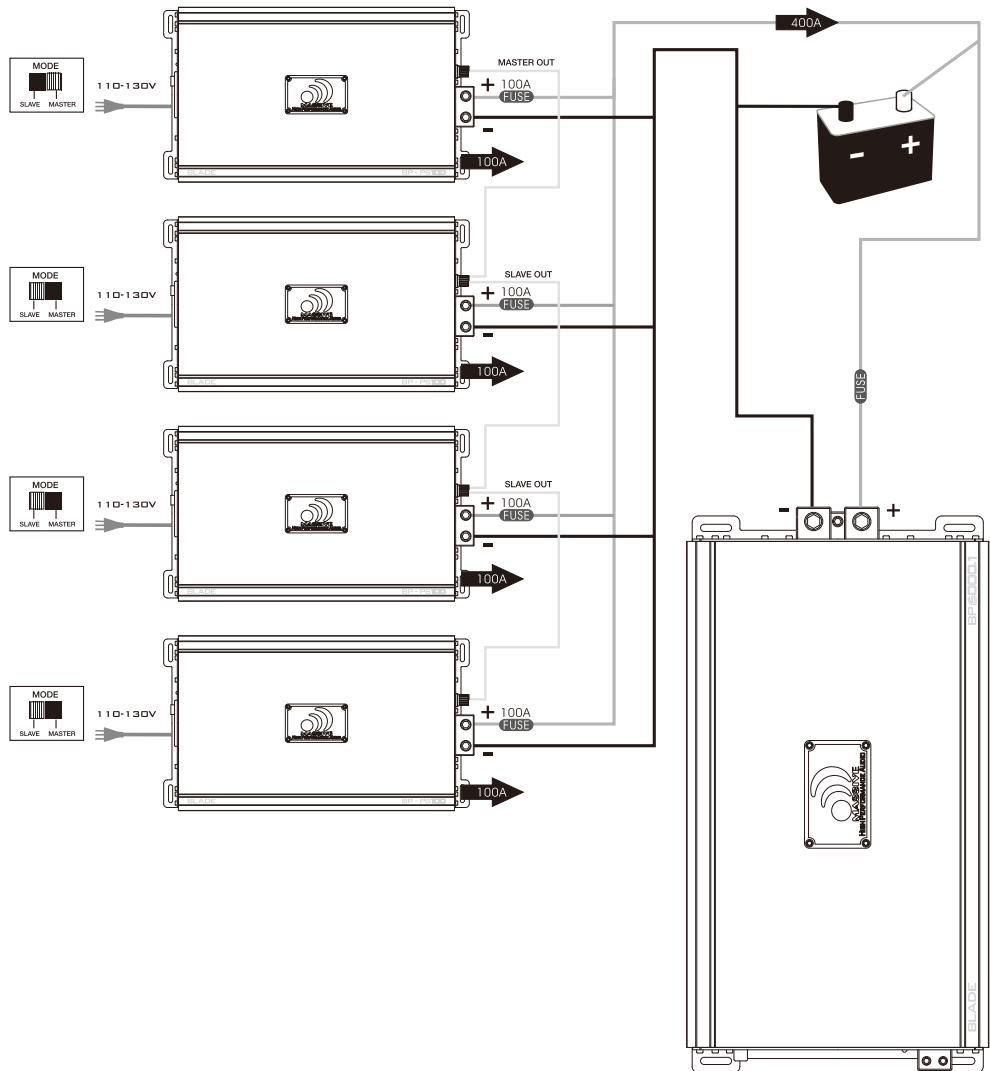
* FUSE ALL CONNECTED DEVICES AS RECOMMENDED BY THE MANUFACTURER.

WIRING DIAGRAM

FIG 5. WIRING IN PARALLEL MULTIPLE BATTERIES

BP-PS100

UP TO FOUR BP-PS100 CAN BE CONNECTED IN PARALLEL. THE MAXIMUM AVAILABLE CURRENT WILL BE DETERMINED BY THE SUM OF THE RATED CAPACITY OF EACH BP-PS100 IN THE CIRCUIT. IN THE EXAMPLE BELOW THE FOUR PARALLEL UNITS OF BP-PS100 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 20A PER BP-PS100 WILL BE REQUIRED. AVOID CONNECTING MULTIPLE POWER SUPPLIES TO A SINGLE AC OUTLET USING POWER STRIPS.

SPECIFICATIONS

POWER SUPPLY	
BP-PS100	
DESIGN	SWITCHING TYPE
INPUT VOLTAGE	120V AC \pm 10%
INPUT FREQUENCY	60HZ
ADJUSTABLE OUTPUT	10V-16V DC \pm 0.5VOLTS
OUTPUT CURRENT	100AMPS DC CONTINUOUS (MAXIMUM)
LINE REGULATION	LESS THAN \pm 5%
LOAD REGULATION	LESS THAN \pm 5%
EFFICIENCY	MORE THAN 85%
OVERLOAD PROTECTION	MORE THAN 100AMPS
OUTPUT RIPPLE	150MV RMS
PROTECTION TEMPERATURE	75°C
COOLING FAN	4PCS(30x30x10MM)
INPUT CABLE	SVT 14AWG-0AWG
OUTPUT CABLE	4AWG
POWER SWITCH	15A/250V AC
FUSE SIZE	20A/250V (INPUT VOLTAGE 120V)
DIMENSIONS(LxHxW)MM	302X55X190
DIMENSIONS(LxHxW)INCH	11.9X2.2X7.5

SUBJECT TO TECHNICAL CHANGE

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 90 days 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.

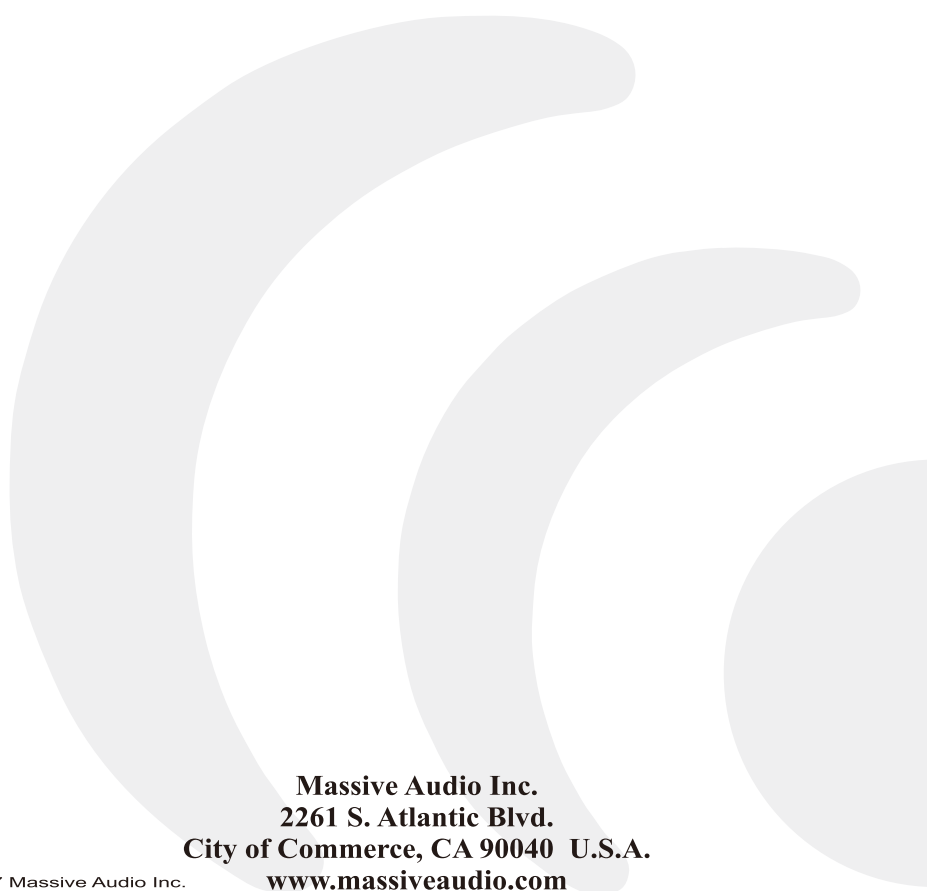
Except as provided herein, Massive Audio, Inc. makes no warranties or representations, express or implied, including any warranty implied by law, whether for merchantability or fitness for a particular purpose and shall be effective only for the period that this express warranty is effective. SEE THE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

*DUE TO CONSTANT IMPROVEMENT PRICES AND SPECS ARE SUBJECT TO CHANGE WITHOUT PRIOR NOTIFICATION.

WARRANTY

- This product is not recommended for outdoor use.
- Do not expose the power supply to excessive moisture.
- 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 BP-PS100 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 BP-PS100 will not damage connected batteries. When a connected battery reaches a fully charged state, the BP-PS100 will decrease its output current to a safe level by degree.
- 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 120V AC/50Hz , as indicated on the label.
- Do not overload A power outlets to avoid danger of electric shock and fire. A minimum current of 20A 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.

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