



Z-PS P100A Power Supplies Owner's Manual

Before operating the unit, please read this manual thoroughly and retain it for future reference.

Important Safety Instructions

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

Warnings:

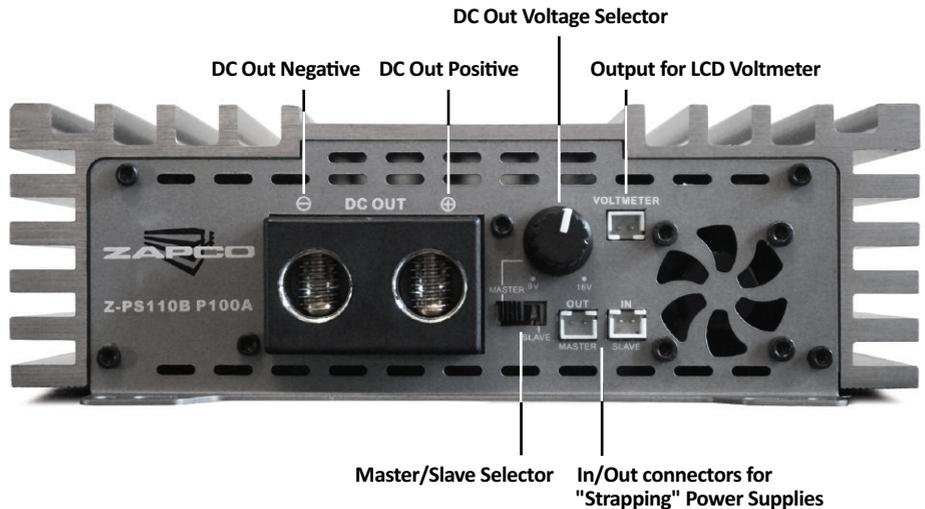
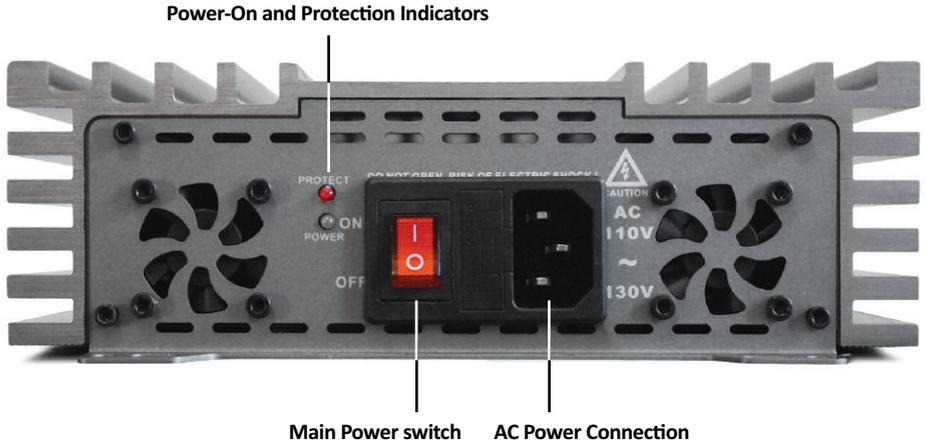
- This power supply is not recommended for outdoor use
- Do not expose power supply to excessive moisture
- Fuse all connected devices as recommended by the manufacturer
- This power supply is not intended for use as a battery charger. Connecting to a deeply discharged battery can cause the supply to go into current limit mode and can damage the power supply
- This supply can be used alone or in conjunction with a battery or multiple batteries. If used with a battery, the output will be automatically adjusted depending on battery condition to avoid battery damage
- Batteries should not remain connected to the charger for extended periods of time
- The power supply should be operated from a standard 110V or 220V 50Hz~60Hz AC Outlet (as indicated in model number). A minimum of 20 Amps will be required
- If required at a later date, the input supply voltage can be changed as per instructions in this manual
- Avoid use of extension cords
- The power plug is polarized for safety, do not modify the power plug.
- Do not cover or block the power supply's cooling fans



If your unit should require service, contact your dealer. Do not attempt to service the unit.

Charting the P100A Power Supplies

The controls and functions of the Z-PS110B and Z-PS220I are identical in all ways except AC input voltage.



Connecting the P100A Power Supplies

Caution: Make all connections before you connect the power supply to AC power

1. Assure that the device requiring power is turned off
2. Assure that the power supply switch is turned off
3. Assure that the Master/Slave switch is set to Master (see instructions below for strapping multiple supplies)
4. Set the output voltage selector to the required voltage (13.5 volts for most car electronics)
5. Connect the volt meter if you will be using it
6. Connect the Positive, and then the Negative power cables from the device to the power supply. USE Extreme Caution and assure that the positive and negative power connections are correct, as reversing polarity may well damage both the power supply and the device being powered. The connected device should be fused as per the manufacturer's recommendation
7. After double checking items 1~5, connect the A/C cord to a correct standard 110B or 220I power receptacle, depending on the power supply model
8. Flip the power switch to the ON position and the blue LED will light to indicate the powered up condition

Notes on the Operation of the P100A Power Supplies

Master/Slave Switch: When using a single P100A supply, the Master/Slave switch must be set to Master or the Supply will go into protect and the red LED will light.

Included Volt Meter: Your package include a panel mount volt meter. You can plug the meter's cable into the Volt Meter port in the supply's control end plate.

Temperature Controlled Fans: The fans will stay off until temperatures reach 50°C (120°F), when they begin to cool the unit. If the temperature should ever exceed 75°C (167°F) the unit will go into thermal protection until the unit cools to operating temperature.

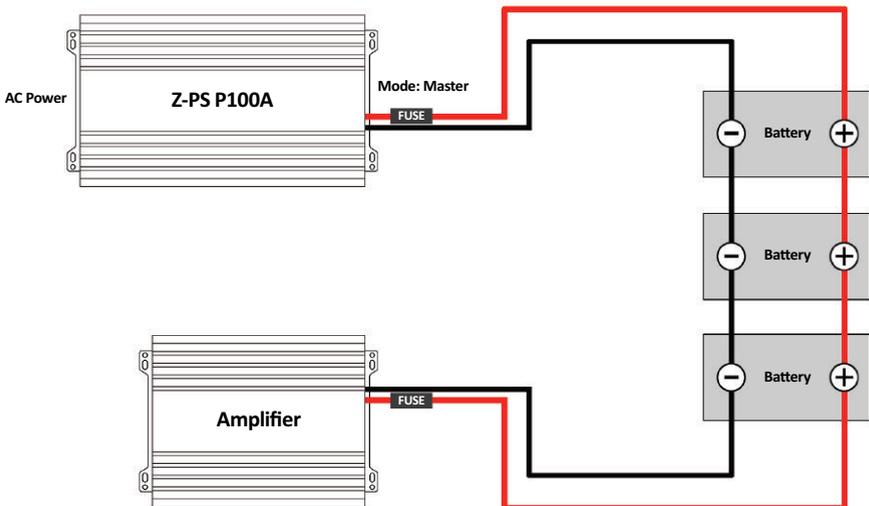
Over Current: If the device connected requires more than 16Volts, or more than 100 Amps of current to operate, the power supply will sense this and go into protect and the red protect LED will light.

Interference: The Zapco power supplies are high power switching supplies and as such may cause some interference to TV or radio reception. If you experience this you should turn the power supply off and move it further away from the receiving device.

Correct Input Voltage: Your P100A supply is set for to the proper input voltage for the country in which it was first sold. If you should move or need it changed for some other reason, you may contact your Zapco Dealer or Zapco directly about modifying your unit.

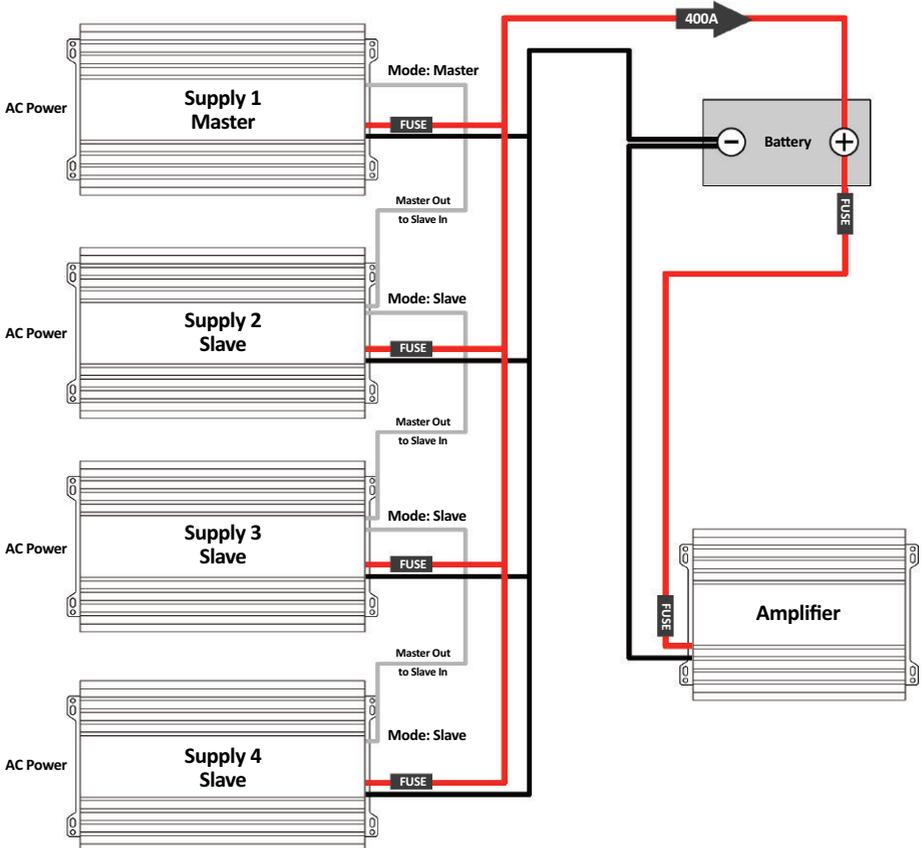
Using Power Supplies with Batteries

The Zapco power supplies can be used in combination with a battery or batteries, depending on the usage requirements. Batteries should be 12 volt automotive type. Higher voltage commercial batteries should not be used and will put the supply into protection. Multiple batteries must be connected in parallel. For safety, there should be a 100A fuse at the output of the power supply and a fuse of manufacturer's recommended amperage at the amplifier.



Using Multiple Power Supplies

Up to four P100A power supplies can be strapped to provide more DC current if required by the powered device. Each supply will add 100 Amps to the circuit for a maximum of 400 Amps. The first supply in such a circuit must be set to Master. All following supplies are set to Slave, then the Master supply's voltage control will set the voltage for all the supplies.



See above: Using the supplied connecting cables, the control OUT of #1 goes to the IN of #2. OUT of #2 goes to IN of #3, etc. Only Supply 1 is in Master mode, all others are in Slave mode.



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