



PS100



PS200



PS200T



PS200ADJ



PS600ADJ

	PS100	PS200	PS200T	PS200ADJ	PS600ADJ
<i>Voltage</i>	13.8V DC	13.8V DC	13.8V DC	5~15V DC	5~15V DC
<i>Power</i>	100W	200W	200W	200W	600W
<i>Max Current</i>	8A	15A	15A	0 ~ 15A Adjustable	0 ~ 40A Adjustable
<i>Input</i>	220~240V AC	220~240V AC	220~240V AC	220~240V AC	220~240V AC
<i>Display</i>	-	-	Backlit LCD	Backlit LCD	Backlit LCD

OPERATING INSTRUCTIONS

Please keep for future reference

Thank you for purchasing this Fusion Power Supply. We are sure you will be pleased with its performance and features. In order to ensure that you obtain the maximum benefit from its operation, please read the instructions carefully.

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PS100, PS200 & PS200T BASIC OPERATION

Connect the power supply to the mains, making sure that the switch on the unit is turned off.

With the power supply turned off, connect the charger (or other device) to the power supply ensuring the correct polarity.

RED = + POSITIVE BLACK = - NEGATIVE

The unit can now be turned on and the LED or LCD screen (depending on the unit being used) will light up showing that power is now being supplied.

PS200ADJ & PS600ADJ BASIC OPERATION

Connect the power supply to the mains, making sure that the switch on the unit is turned off.

Before connecting anything to the Power Supply, the voltage and current limits should be set. To do this start by turning the unit on and checking that the current limit adjuster is set to the required value. Generally, when used as a power supply, the current limit will be set to maximum so the adjuster should be turned fully clockwise. N.B. The display only will show the current being supplied and not the current limit that has been set, so setting this limit is only approximate. To set the voltage, turn the adjuster to obtain the required voltage. N.B. Most devices designed to run from a 12V car battery will operate at 13.8V.

With the power supply turned off, connect the charger (or other device) to the power supply ensuring the correct polarity.

RED = + POSITIVE BLACK = - NEGATIVE

The unit can now be turned on and the LED or LCD screen (depending on the unit being used) will light up showing that power is now being supplied.

CHARGING LEAD-ACID BATTERIES WITH AN ADJUSTABLE POWER SUPPLY (PS200ADJ ONLY)

Lead-acid batteries can be charged with an adjustable power supply by charging at a constant current then constant voltage.

With the battery disconnected, using the voltage adjuster set the maximum charge voltage. For lead-acid batteries, the voltage limit should be calculated based upon 2.40V per cell. i.e. 12V batteries should be set to 14.4V.

Next, decide upon the maximum charge current for your battery. This is normally between 8% and 30% of the battery capacity i.e 10Ah battery can normally be charged at between 0.8A and 3.0A.

Turn the current limit to 0A (fully anti-clockwise) and connect the battery ensuring the correct polarity (Red = +ve, Black = -ve). Now slowly turn the current limit clockwise until the desired maximum charge current is shown on the display. N.B If the battery is well charged then the voltage limit may already be reached, so the desired maximum charge current will not be achievable. In this case, set the current limit adjuster to the point at which the current display stops increasing.

The power supply will charge the battery at the desired current until the voltage of the battery reaches the maximum voltage, at which stage the charge current will slowly reduce as the battery becomes charged.

When the charge is complete, turn the power supply off and disconnect the battery.

IMPORTANT INFORMATION FOR ALL MODELS

- This unit must **ONLY** be used indoors and in completely dry conditions.
- Place the Power Supply on a firm, non flammable level surface.
- **DO NOT** cover the Power Supply.
- Take great care over the connection polarity, as permanent damage can occur when something is connected to the supply with the wrong polarity.
- **ALWAYS** disconnect the Power Supply from the AC mains when not in use.
- **DO NOT** disassemble the power supply, as there are no user serviceable parts inside and this can affect the warranty.
- The Power Supply may become warm in use and you may hear a slight buzzing sound – this is normal and no action is needed.
- **DO NOT** attempt to use with equipment which requires more than the maximum current selected.