

5. Installation

NOTE: Before installation, please inspect the unit. Be sure that nothing inside the package is damaged.

Connect to Utility and Charge

Plug in the AC input cord to the wall outlet. The unit will automatically charge the connected external battery even though the unit is off.

Connect External Battery

Step 1- Take away the cover of external battery terminal.

Step 2- Following battery polarity guide printed near the battery terminal!

Place the external battery cable ring terminal over the battery terminal.

RED cable to the positive terminal (+);

BLACK cable to the negative terminal (-).

WARNING! Please use the appropriate battery cable. Please refer to **Important Safety Warnings Section** for the details.

Step 3- Tight the battery cables with the M5 nuts. Do NOT place anything between the flat part of battery terminal and the battery cable ring terminal, or overheating may occur.

(See Fig. 1)

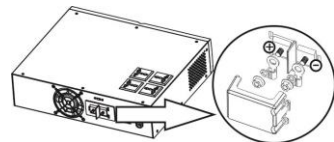


Fig.1

Step 4- Install a DC Breaker in a positive battery line. The rating of the DC Breaker must be according to the inverter's battery current (75 Amp). Keep the DC breaker off. **(see Fig. 2)**

Step 5- Connect battery cables to the external batteries. Note: For the user operation safety, we strongly recommend that you should use tapes to isolate the battery terminals before you start to operate the unit.

1) Single battery connection(Refer to Fig. 2): When using a single battery, its voltage must be equal to the Nominal DC Voltage of the unit **(see below Table 1).**

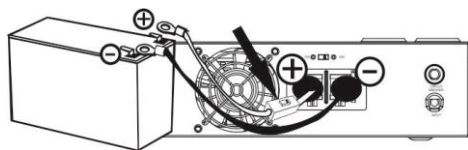


Fig. 2

Table 1

Model	Nominal Battery DC Voltage
1200VA	12 VDC
2400VA	24 VDC

2) Multiple batteries in series connection(Refer to Fig. 3): All batteries must be equal in voltage and amp hour capacity. The sum of their voltages must be equal to the nominal DC Voltage of the unit.

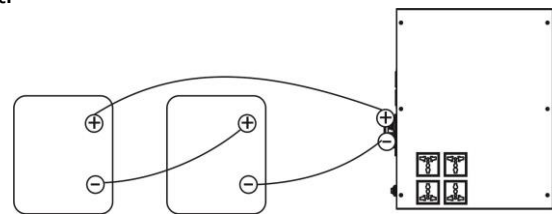


Fig 3

3) Multiple batteries in parallel connection(Refer to Fig. 4): Each battery's voltage must be equal to the Nominal DC Voltage of the unit.

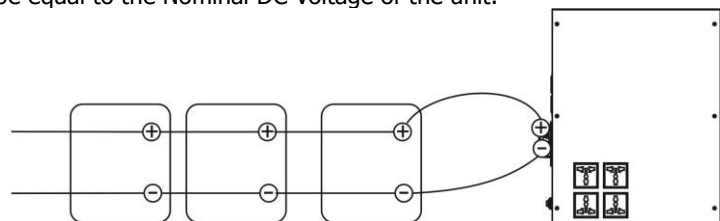


Fig 4

Step 6- Make sure to connect the polarity of battery side and the unit correctly.

Positive pole (Red) of battery to the positive terminal (+)of the unit.

Negative pole (Black) of battery to the negative terminal (-) of the unit.

Step 7- Put the covers back to the external battery terminals.

Step 8- Take the DC breaker on.

6. Operation

Power On/Off

Once the inverter has been properly installed, press the power switch to turn on the unit. The unit will work automatically in line mode or inverter mode according to input utility power's status. When press the power switch again, the unit will be turned off.