REVERIE

Solar Charge Controller

Installation Guide for Solar charge Controller-Zero Drop

Over view

Reverie Solar's low cost, High efficiency & micro-controller based solar chargers are ideal for low power solar applications.

The micro-controller will sense the battery full charge voltage and will cut-off the battery when it reaches full charge. It will reconnect the battery if the battery drops to a preset level. The charger will also disconnect the panel from the battery to avoid the reverse current flow from the battery to panel during night.

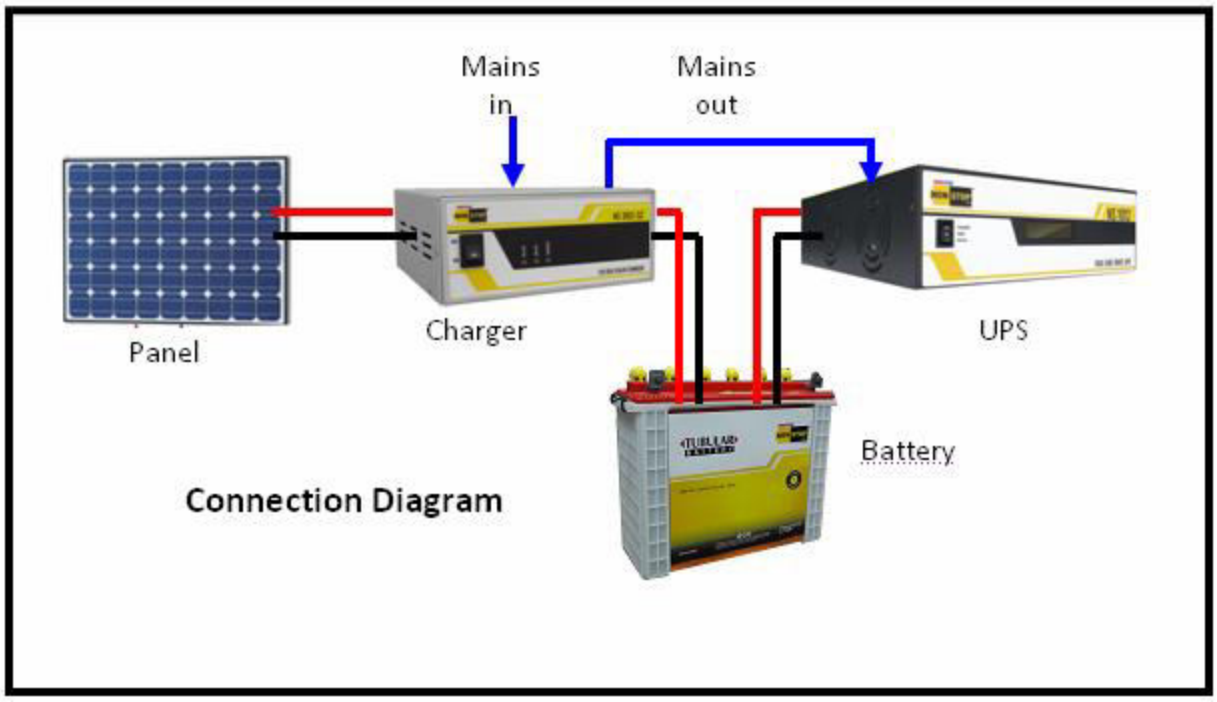
This product has a special feature to upgrade any conventional UPS in to solar UPS with first priority given to solar.

The charger has the intelligence to connect & disconnect the AC mains to the UPS depending upon the battery voltage levels to ensure using solar as primary power & mains only for the emergency.

Technical Specification: Zero Drop

MODEL NO	SS 3012	SS 3024	SS 6012	SS 6024
Max. Solar open circuit voltage(Voc)	25V	40V	25V	40V
Max. Solar panel capacity	360Wp	720Wp	720Wp	1440Wp
Max. Battery charging current	30A	30A	60A	60A
Peak charger efficiency	99%	99%	99%	99%
System Voltage (V)	12VDC	24VDC	12VDC	24VDC
Battery full voltage (Solar charging)	14.5 ± 0.1V	29 ± 0.2V	14.5 ± 0.1V	29 ± 0.2V
Battery voltage (Mains disconnect)	14 ± 0.1V	28 ± 0.2V	14 ± 0.1V	28 ± 0.2V
Battery voltage (Mains reconnect)	11.3 ± 0.1V	22.6 ± 0.2V	11.3 ± 0.1V	22.6 ± 0.2V
Recommended battery capacity	1x 200AH	2x 200AH	1x400AH	2x 400AH
LED indication	Solar charging, Battery reverse, Panel reverse			
Physical termination	Solar in & Battery: Terminal block Mains in : 6A power cord Mains out: 15A power out let			

Installation



- Make the connections as shown in the above diagram.
- Ensure that Panel & battery connections are made with correct polarity.
- Switch on the charger.

Warning!

- Wrong connections to panel or to battery may damage the unit.
- Open circuit voltage or panel capacity exceeding the limit will damage this unit