

Convert Ordinary UPS or Inverter to SOLAR! Go Green! Save Energy!

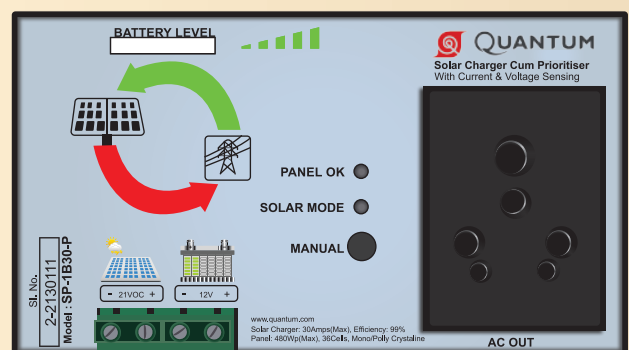
The **SP-1B30-P/ SP-2B30-P/ SP-4B30-P** Solar Prioritizer is a fully automatic solar charger which also control the ac supply to any ordinary UPS or Inverter. Its 16 bit digital controller continuously track the PV panel Voltage, the Charging current and the Battery Voltage. Based on its advanced multipoint tracking algorithm, it optimally controls the ac power input to the Inverter or UPS.

The incident solar energy first charges the battery. Once the battery is charged, the Mains input to the UPS is disconnected and forces it to go to Battery mode. Now it does not draw any power from the mains supply. At the same time, the solar charger will be charging the battery. Effectively, the load connected to the UPS will now run on solar power.

Voltage and Current Based Control Ensures Battery is not Discharged by its Operation.
Assures Reduction in Electricity Bills!

Advantages:

- o **The Smart Changeover** optimally controls the ac input to the UPS and ensures the battery is never discharged.
- o **The Advanced Charging** technique using an optimized automatic boost cum float charging algorithm assures full charge and improved battery life.
- o **Current and Voltage Sensing** based logic ensures the battery is never discharged by the Prioritizer.
- o **High Charge Capability** up to 30Amps. Thus, up to 500Wp/12V, 1000Wp/24V or 2000Wp/48V panel can be connected.
- o **Electronic Protection** for reverse connection of Solar Panel or Battery.
- o **Direct Termination** up to 6 sq mm cable.
- o **Battery Level Indicator** for status update.
- o **Manual** selection option to enhance utility.



Specifications:

Parameter	Value (SP-1B30-P/ SP-2B30-P/ SP-4B30-P)
Max Solar Panel VOC, Volts	21 (12V Battery), 42 (24V Battery), 84 (48V Battery)
No of Cells	36/ 72/ 144
Type of Panel	Mono or Polly Crystalline
Max Panel Capacity	500W/ 1000W/ 2000W (30A Isc)
Converter Type	Zero Drop PWM Control
Control	16 Bit Digital
Relay Rating	32A
Termination	30Amps DC (6 Sq mm Wire)
PANEL OK LED	RED: Solar Charging OFF GREEN: Solar Charging ON
SOLAR MODE LED	RED: UPS in ac Mains Mode GREEN: UPS in Solar Mode (Battery)

To operate in manual mode, double click MANUAL button. The Battery level indication will FLASH in manual mode. In manual mode, the battery will be charged by Solar power, but will not disconnect the mains input to the UPS. In manual mode, to change the UPS from Mains to Battery or Battery to Mains, press MANUAL button once. To change back to AUTO mode, double click the MANUAL button again. The Battery level indication will be STEADY in AUTO mode.

Note: Specification may change as result of continuous improvement of the product. Contact factory for latest update. Picture shown may have some variation in the actual product depending on model.

Wiring Diagram

