

## Solar Charge Controller 12V 10A

### Product Description:

SOLAR CHARGE CONTROLLER solar battery charger has mainly three basic functions: 1) to limit the voltage from the solar panel and regulate the same so as not to overcharge the battery 2) not to allow the battery to get into deep discharge mode while dc loads are used 3) to allow different dc loads to be used and supply appropriate voltage A charge controller limits the rate at which electric current is added to or drawn from electric batteries. It prevents overcharging and may prevent against overvoltage, which can reduce battery performance or lifespan, and may pose a safety risk. It may also prevent completely draining ("deep discharging") a battery, or perform controlled discharges, depending on the battery technology, to protect battery life. - A solar charge controller is needed in virtually all solar power systems that utilize batteries. The job of the solar charge controller is to regulate the power going from the solar panels to the batteries. Overcharging batteries will at the least significantly reduce battery life and at worst damage the batteries to the point that they are unusable.



**Please connect battery wire first to the controller and only then the solar panel wire to the controller otherwise the controller will get damaged and warranty will be voided.**

### Benefits:

Excellent Charging algorithm Compact in size and easy to install.  
Offers long life to battery. Negligible self consumption. Negligible voltage drops.  
3 Stage battery charging - Boost / Absorption / Trickle charging mode  
Low voltage protection Battery overcharge protection, solar battery charger  
DC Voltage 12 V Auto sense DC Current 10 Amps Technology PWM  
Built in Dusk down operation. Connections PV, Battery and Load  
Self-consumption: 6mA maximum Temperature compensation: -30mV/°C/12V

Technical Specifications:	Rating:
For 12V Pv System: 120W Solar Panel,12V Lead-acid Battery,21V for Max input Voltage	12 Volt auto work, 10 Amps (for PV and load)
Dimensions: <b>14.6 x 12.6 x 6 cm</b> Weight: <b>240 g</b>	Equalisation voltage: 14.8Volt
Overcharging protection	High voltage disconnect(HVD): 14.4Volt
Deep discharging protection	Float voltage: 13.6Volt
Short and Open Circuit protection	Low voltage disconnect(LVD) 11.1Volt
Full specification available if required	Low voltage reconnect(LVR): 12.6Volt
Fail Safe and cannot be damaged by accidental wiring mistakes	
Advanced design with simple plug and play technology. No need for complicated adjustments	