

# MPPT CHARGER

EFFICIENT, ADAPTIVE, MAXIMUM POWER TRACKING.

## KEY FEATURES

- HIGH EFFICIENCY >95%
- AVAILABLE IN WIDE RANGE OF VOLTAGES AND CURRENTS
- BLOCKS REVERSE CHARGE TO PV PANEL
- AUTOMATIC DISCONNECTION AND RE-CONNECTION OF AC MAINS AND DC LOAD
- WIDE VMP RANGE AND HIGH VOC LIMIT



MPPT  
CHARGER

12 V to 360 V

## ABOUT

SkySail Innovation MPPT Solar Charge Controller that uses Maximum Power Point Tracking (MPPT) technology to extract maximum power from solar panels. It is designed to charge batteries from solar panels, ensuring efficient and reliable operation of solar power systems. Here are some of the features and benefits of SkySail Innovation MPPT Solar Charge Controller:

**MPPT Technology:** The MPPT technology ensures that the solar panels are operating at their maximum power point, maximizing the power output of the system and improving its efficiency.

**High Efficiency:** The SkySail Innovation MPPT Solar Charge Controller has a high conversion efficiency, which allows for efficient charging of batteries from solar panels.

**Wide Input Voltage Range:** The SkySail Innovation MPPT Solar Charge Controller can handle a wide input voltage range, making it compatible with a variety of solar panel configurations.

**Automatic Voltage Regulation:** The controller has an automatic voltage regulation function, which ensures that the batteries are charged at the optimal voltage, improving the battery life and performance.

**Multiple Battery Types:** The controller is compatible with multiple battery types, including lead-acid and lithium-ion batteries, providing flexibility and versatility for solar power systems.

**LCD Display:** The SkySail Innovation MPPT Solar Charge Controller is equipped with an LCD display that shows real-time charging data, making it easy to monitor the system's performance.

**Multiple Protection Functions:** The controller has multiple protection functions, including overcharge, over-discharge, short-circuit, and reverse polarity protection, ensuring the safety and reliability of the system.

## USE IT

- ✓ As a stand-alone charger for charging batteries from Solar power
- ✓ To add a Solar Charger to a UPS or Solar Inverter
- ✓ To convert existing UPS to Solar Inverter with solar charging option
- ✓ For Low to High power applications

## 250 W – 110 KW

- ✓ LCD Energy Meter
- ✓ All protections including Panel reverse polarity and
- ✓ Battery reverse polarity
- ✓ Remote monitoring facility using GSM, web based
- ✓ One of the first and best MPPT chargers in India

## SKYSAIL CHARGE CONTROLLERS ADVANTAGES:

- ✓ High efficiency >95%
- ✓ Available in wide range of Voltages and Currents
- ✓ Blocks reverse-charge to PV panel
- ✓ Automatic disconnection and re-connection of AC mains and DC load
- ✓ Wide Vmp range and high Voc limit

Product Information	MPPT 360	MPPT 24		PWM 96
DC Voltage	24/48/72/96/120/144/180/192/240/360	12 V	24 V	12 V – 96 VDC
Charger Capacity 20 A	20 A – 300 A	20 A		10 A – 60 A
Maximum Open Circuit Voltage (Voc)	22 V	63 V		22 V
Vmpp	16.5 V – 19 V	16.5 V – 40 V	33 V – 60 V	16.5 V – 19 V
Charger Type	3 Stage interleaved MPPT	Single Stage MPPT		PWM Charger
Peak Efficiency	>95%	>95%	>95%	>95%
Mains Disconnect	14.4 V per battery (settable)	14.4 V	28.8 V	14.4 V per battery
Mains Reconnect	11.8 V per battery (settable)	11.8 V	23.6 V	11.8 V per battery
Display Parameters	MPPT On/Off, MPPT Output Voltage, MPPT Output Current, All trip messages			
Cooling Forced	Air cooling			
Operating Temperature	0–50°C			
Protections	Lightning, Panel Reverse Polarity, Input (Panel) High Voltage, Short Circuit, Reverse discharge Blocking, Overload, Over Current, Battery Over Charging, Over Temperature.			