

Maxima

MPPT series 60-90A



Features:

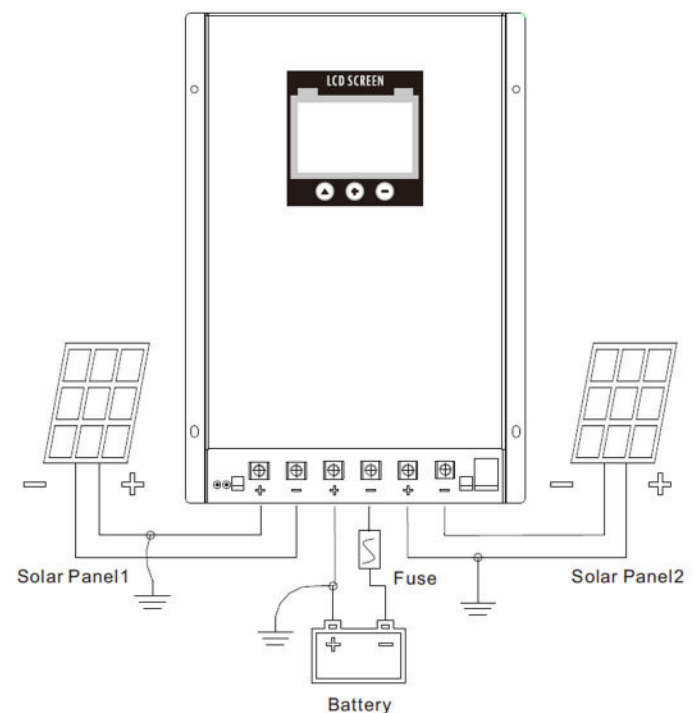
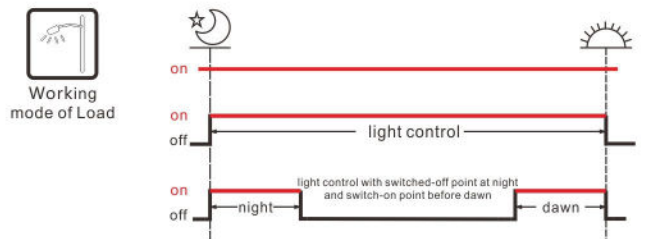
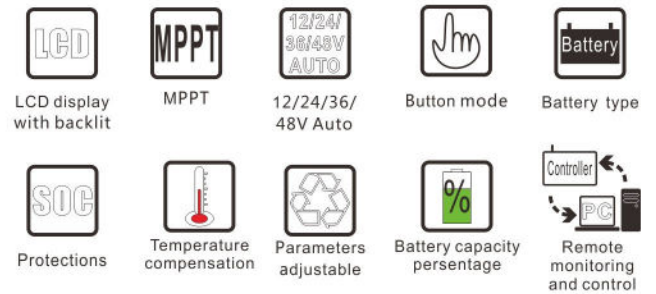
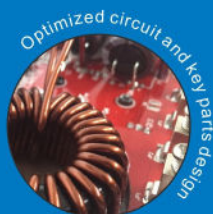
- DSP processors architecture ensure high speed and performance
- MPPT efficiency > 99%, Peak conversion efficiency > 98%
- 12V/24V/36V/48V auto work
- PV input: 75V or 150V max
- Four-stages charging mode
- Battery type options: Sealed, Gel, Flooded and User
- LCD display
- RS485 port with industrial standard MODBUS open architecture
- Multiple load control modes

Electronic protections:

- Over charge protection
- Over discharge protection
- Over temperature and over load protection
- Automatic electronic fuse
- Short circuit protection of load and PV
- Input over voltage protection
- Reverse current protection at night
- Reverse connection protection of PV, load, and battery

Displays:

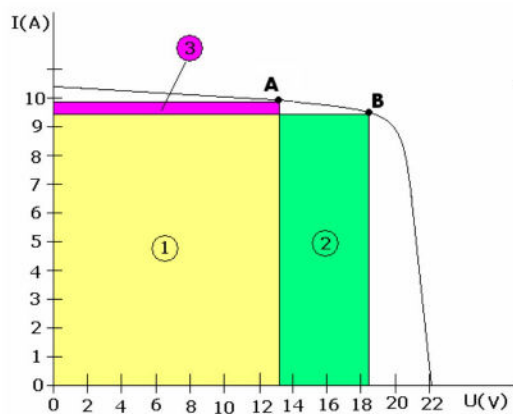
- Vivid LCD graphic symbols
---presents working status and related parameters explicitly



MPPT introduction

MPPT means maximum power point tracking. MPPT technology is the technology to track the maximum power point of the solar panels.

Under a certain condition of temperature and light, the I-V curve of the solar panels is as the right chart. The output power of solar panel is product of I and V, which means rectangular area of the points on I-V curve for solar panels. See the right chart, when the solar panels work at point A, the output power is $P_a=1+3$; when solar panels work at point B, the output power is $P_b=1+2$. Obviously, we can see $P_b>P_a$. The purpose of MPPT technology is to keep the solar panels always working at point B when the outer conditions change.



Technical Data

Model	MSCCMPPT60D	MSCCMPPT90D
Default Battery System Voltage	12V/24V/36V/48V DC (adjustable)	
CONTROLLER INPUT		
PV Maximum Open Circuit Voltage	150V	
PV Minimum Open Circuit Voltage	20V/40V/60V/80V	
BATTERY		
Equalization Voltage	14.6VDC/29.2VDC/43.8VDC/58.4VDC	
Absorption Voltage	14.4VDC/28.8VDC/43.2VDC/57.6VDC	
Float Voltage	13.8VDC/27.6VDC/41.4VDC/55.2VDC	
Low Voltage Protection Point	10.8VDC/21.6VDC/32.4VDC/43.2VDC	
DC OUTPUT		
Output Voltage	11.0-14.3VDC/22.0-28.6VDC/ 33-42.9VDC/44-57.4VDC	
Max Charging Current	60A	90A
Peak Conversion Efficiency	98%(MPPT Efficiency 99%)	
Low Voltage Alarm	11.5VDC/23.0VDC/34.5VDC/46.0VDC	
Low Voltage Cutoff	10.5VDC/21.0VDC/31.5VDC/42.0VDC	
Low Voltage Recovery	12.6VDC/25.2VDC/37.8VDC/50.4VDC	
Charge Mode	MPPT,PWM,constant current-constant voltage,function of automatic protection for storage battery	
Radiating Mode	Automatic cooling	
Working Mode	Four stage: Bulk, Float, Absorption, Equalization	
DISPLAY & PROTECTION		
LCD Display	Charge voltage, Charge current, Battery voltage, Battery capacity, Output current	