



# CMP12 Solar Charge Controller

**10 AMP 12V/24V auto switch**

**PHOTOVOLTAIC CHARGE CONTROLLER**

***INSTALLATION AND OPERATION MANUAL***



## **IMPORTANT SAFETY INSTRUCTION**

***Connect the controller to your battery first and then connect solar panel and inverter or applications.***

### **Function:**

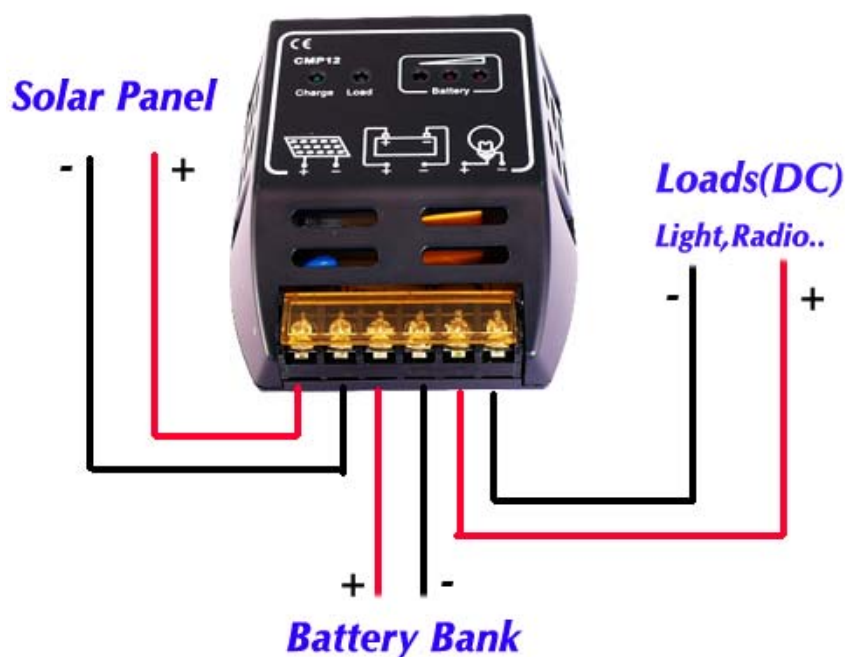
According to the voltage of battery, controller will adjust the charging current and decide if to supply power to the loads.

1. Generally keep the battery on full voltage condition.
2. Prevent the battery from over-charging.
3. Prevent the battery from over-discharging.
4. Prevent the battery from supplying power to solar panels during nights.

### **Connection:**

As indicated in diagram:

1. Connect “+” and “-“ poles of solar panels with the correct ports on the controller (the first and second from the left).
2. Connect “+” and “-“ poles of battery with the correct ports on the controller (the third and fourth from the left).
3. Connect “+” and “-“ poles of load with the correct ports on the controller (the fifth and sixth from the left).



### Indicator light:

1. There are 3 red LEDs indicating the voltage level of battery. The battery is full when all 3 LEDs are lighting. When 1 or 2 LEDs are lighting, it means the battery is on the low level, where the loads may not working properly. As the voltage of battery reaches 12.6, the loads will automatically resume working.
2. The battery is being strongly charged when the “Charge LED” is lighting. The battery is floatingly charged when this LED is flickering, and the battery has stopped charging when the LED is off.
3. The “Load LED” indicates the working condition of loads. When it lights, it means the load may work; when it’s off, it means the load may not work.

### Notice:

1. Please check the rated voltage of solar panels, battery, and load before connecting. Their rated voltage should be same (12v).
2. Pay more attention to “+” and “-” poles of solar panels, battery, controller and

loads during the process of connection.

3.The rated current of solar panels and loads must be less than the one of controller.

## Data Sheet

- **Model: CMP12**
- **Rated Voltage: DC12V/24V**
- **Max Current: 10A**
- **Full Charge Cut: 13.7V/27.4V**
- **Low Voltage Cut: 10.5V/21V**
- **Temp compensation: -3mv/°C/cell**
- **Zero Load Losses: ≤20mA**
- **Min Wire Size: ≤20mA**
- **Min Wire Size: 2.5mm<sup>2</sup>**
- **Voltage Drop: <210mv**
- **Working temperature: -10~60 degrees C;**
- **Storage temperature: -30~70 degrees C;**
- **Dimension: 95\*102\*36mm;**
- **Weight: 0.14KG.**

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