

CMP-03 Solar Charge Controller

User's Manual

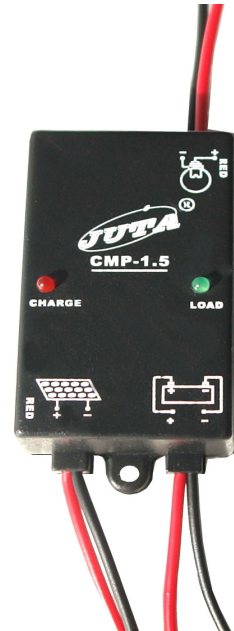
The Juta CMP-03 Solar Charge Controller is designed for use with low amperage solar equipment such as solar lawn/garden lights, solar street lights and so on. The Charge controller is also compatible with the use of solar panels rated to 3A (approx 36W) for use on a nominal 12VDC system. The controller box is compact sealed with silicone. It has Temperature Compensation during charging and Sensor Control.

Features:

- 1) Overcharging and Over-discharging Battery protection
- 2) Prevents reverse current from the battery to the solar panel at night.
- 3) Automatically controls the loads:
 - (a) Battery voltage is in full condition, automatically connects the loads after sunset.
 - (b) Battery voltage is low, automatically disconnects the loads in advance.

Connection:

1. Connect the “+” and “-” of the battery with Black and Red wires (Battery Icon). Red being “+” and Black being “-“. Install a 5A fuse between battery and controller.
2. Connect the “+” and “-” of the solar panel with Black and Red wires (Solar Panel Icon Red being “+” and Black being “-“. Cover solar panel when making connections.
3. Connect the “+” and “-” of the load with Black and Red wires (Light Bulb Icon). Red being “+” and Black being “-“.



Indicators:

1. Charging Indicator (Red LED): LED on indicates high charging, LED flash indicates float charging, no LED indicates stop charging.
2. Load indicator (Green LED): LED on indicates there is power output to the loads, no LED indicates no output, the loads will not be powered.

Attention:

1. Please check the rated voltage of the solar panels, they must be the same as the controller; voltage should be 12V nominal, V_{mpp} 17-18V max.
2. The input Current from the solar panel and output Current to the loads can not exceed the rated current of the controller. (3A)
3. The controller can not sustain a short circuit on its load output, recommend fusing load with 3A quick blow fuse. Load must be non-inductive.
4. Do not use a DC power supply instead of solar panels for the battery charging through

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the controller.

5. Reversing polarity of battery leads or solar panel leads will void warranty. Verify connections prior to finalizing.

Technical data:

Rated Voltage	12V	LVD(Low Voltage Disconnection)	10.5V
Rated Charge Current	3A	LVR (Low Voltage Reconnection)	12.0V
Rated Discharge Current	3A	Load Controller Mode	Yes
HVD (High Voltage Disconnection)	14.4V	Temperature	-10- +40°C
Temperature Compensation	-3mV/°C/cell	Relative Humidity	≦ 90%
Size	2.17"x1.42"x.80"	Net weight	.21lbs

