600W MPPT boost charging module parameters;

The maximum power used by the solar panel: <600W (18V solar panel <200w, 36v solar panel <400w, if you work for a long time, please leave a margin for use, and pay attention to the heat dissipation of the module)
Input voltage: DC10-60V
Input current: 12A MAX
Input overcurrent protection: 12A MAX exceeding will automatically reduce the output voltage.
Output voltage: DC10-85V steplessly adjustable
Output current: 0.2-10A steplessly adjustable (the greater the output current, the greater the heat.)
MPPT voltage adjustable range: 10-60V steplessly adjustable
Working frequency: 200KHz
Working efficiency: The highest 94% efficiency is related to input and output voltage and working current.
Applicable battery type: battery, polymer battery, iron lithium, etc. (adjust the output voltage and charging current according to the battery) input
Anti-reverse connection protection: no
Output anti-backflow: yes
Short circuit protection: 15A fuse, (the output of the module cannot be directly short-circuited, it will burn the fuse or power tube!)

Operating temperature: -20~+85℃, please add a cooling fan when the temperature is high.
Dimensions: 76*60*56mm
Weight: 210g
Note: The actual parameters of voltage and current will have a certain deviation due to the difference of parts parameters

Steps for adjusting parameters of MPPT boost charging module:

1. The module input is connected to the solar panel to ensure that the sun shines on the solar panel.

2. The output of the module is no-load, and the voltage of the multimeter is connected to the output of the module, according to the voltage when the battery is fully charged.
Voltage value (refer to the label on the back of the charger), adjust the CV potentiometer to the desired voltage. Note: If the module does not boost, please turn the MPPT potentiometer 20 turns clockwise before adjusting the output voltage.

3. Connect the battery to the output of the module, and then connect the voltage of the multimeter to the input of the module.
Adjust the MPPT potentiometer to a multimeter showing a voltage close to the maximum power point voltage of the solar panel. Refer to the maximum power point voltage on the label on the back of the solar panel. Generally, a lower voltage than the marked voltage can obtain a larger charging current. For example, if the MPPT value of the 18V board is adjusted to 16-17V, the current will be larger than that of 18V. You can also connect an ammeter in series to call back and forth the MPPT potentiometer to stop the charging current at the maximum point.

4. If you need to use a smaller current for charging (for example, the power of the solar panel is relatively large, and
The battery capacity is relatively small). When the sun is relatively large, connect the current gear of the multimeter in series between the MPPT charger and the battery, and adjust the CC potentiometer to the required current.

Notice:
1. The potentiometer used to adjust the parameters is multi-turn, and there are 28 turns from the minimum value to the maximum value.
Clockwise the voltage or current increases and counterclockwise decreases.

2. If there is sun, the output voltage of the charger cannot be adjusted, or the
If the battery has no charging current, please turn the MPPT potentiometer clockwise for more than 20 turns and then repeat step 3.

3. The input of MPPT charging module should be connected to battery or switching power supply for charging or boosting module.
time cost. Please adjust the CC potentiometer according to the level of the output voltage to limit the output current to prevent over-power use, which will cause the charger to overheat or burn the power tube.