



GOLAND CENTURY

光澜世纪

USER'S MANUAL

SOLAR FLOODLIGHT CONTROLLER CLP05- 5A/ST

(WATERPROOF LEVEL: IP55)

The product can automatically manage the work of Solar Panel and battery in Solar Floodlight System, which is below 60W (12V) or below 120W (24V).

I. FUNCTION:

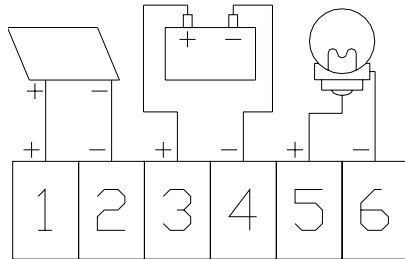
1. Prevent the battery from over charging, over discharging and Reverse discharging to solar panel during nights.
2. Controller will start the lighting system in the evening automatically according to the surrounding luminance.
3. Controller will shut down the lighting system according to the time setting or when it is dawn.



II. CONNECTION (AS INDICATED IN DIAGRAM):

Open the top cover of controller; connect the wire and terminals of controller according to the drawing on the top cover of controller.

1. Connect the “+”, “-” Poles of the battery to the correct ports of controller (the third and the fourth one from left).



- If load indicator (mark: load) flickers once and starts lighting after 30 seconds, you can tell the connection is correct; the following operation can be proceed, otherwise, the following operation may damage the controller.

2. Connect the “+”, “-” Poles of the solar panel to the correct ports of controller (the first and the second one from left).

- **Incorrect connection may damage.**

3. Connect the “+”, “-” Poles of the load to the correct ports of controller (the fifth and the sixth one from left).

III. INDICATOR LED

1. The battery is being charged strongly when the Charge LED is lighting; flickering means the battery is in floating charge mode, if it's off means charging stopped.
2. When the Load LED is lighting, it means there is output and load can work; if it's off, there isn't output and the load cannot work.

Notice:

1. Please make sure the rated voltage of solar panels, batteries the loads are same and are all 12V or all 24V.
2. The rated current of solar panels and load must be less than the rated current of controller.

The Specifications:

Rated Voltage	12V or 24V	Voltage of stop power supply	*10.8V or 21.6V
Rated charging current	5A	Voltage of resume power supply	*11.8V or 23.6V
Rated load current	5A	Voltage of stop charging	*14V or 28V
Working temperature	-20 ~ +60°C	Temperature Coefficient of Voltage stop charge	-3mV/°C/cell
Dimension	109*59*35mm	Net Weight	104g

* Parameters may customized by customers.

IV. METHOD TO SET SWITCH OFF THE LIGHT:

Long press the "Set" key till the green LED starts flickering; Start from 0, one flash is equal to 0.5 hour, once you reach the time needed, loose the key, the setting is completed. This is the method of time controlling for the lamp. If the time is more than 10 hours, the green light will flash fast, then loosening grip, the enactment finished, here the method is automatic light controlling for the lamp.

V. CHECK THE SWITCH OFF MODE OF LIGHT:

Press the "Set" key for 1 second and then loose it.

Time Control Mode: One flash of green LED equals to half an hour (2 Times/Second).

Light Control Mode: It fast flashes for 4 Second (10 Times/Second) .

* Light control has 30seconds delay to avoid thunder or vehicle lights disturbing during the night.

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