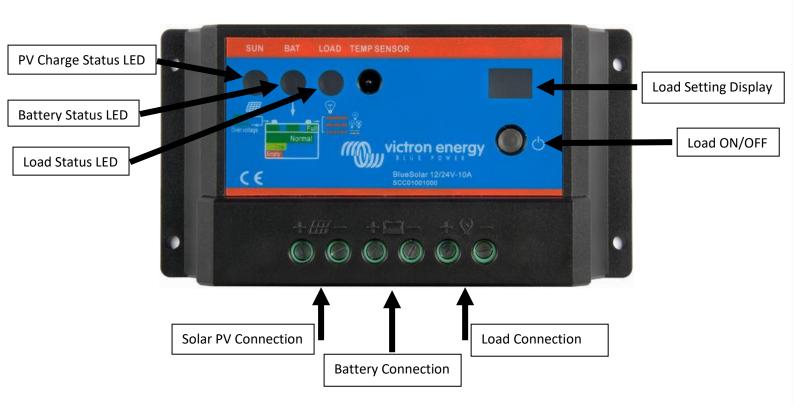


INSTRUCTION GUIDE for

Victron BlueSolar PWM-Light 10A (12/24V)



Features

- Suitable for 12V or 24V solar panels with a current rating up to 10A. Automatic battery voltage detection.
- High efficiency Pulse Width Modulated charging. Boost, recovery and float charging modes keep your battery optimally charged.
- No moving hardware. Flash memory protects against temperature and vibration problems.
- High level of self-protection. Protection against overload, short circuit, reverse connection, lightening, overcharging, overdischarging and PV reverse current.
- LED condition indicators. LED indicators forcharging status, battery status, short-circuit and over-loading.
- Temperature Range: -20°C to +50°C; temperature compensating charging
- Low voltage disconnect feature for loads up to 10A

Weight: 130g Self-consumption: < 10ma Dimensions: 133 x 70 x 33.5mm

Regulation Point: 14.2V/28.4V Low voltage disconnect: 11.2V/22.4V Low voltage reconnect: 13.1V/26.2V

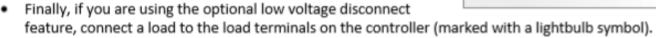
Float Charge: 13.8V/27.6V Warranty: 5 Years CE certified

2- Mounting

- The charge regulator should be fitted in a dry, ventilated environment as close as possible to the battery, to reduce voltage drop. The controller can be mounted using the four corner screw holes.
- Controller dimensions are 133 x 70 x 33.5mm

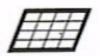
3 - Wiring

- Keep cable lengths as short as possible and use a multi-strand insulated copper wire
- Ensure correct polarities throughout.
- First connect the regulator to the battery, wiring into the screw terminals marked with a battery symbol and connecting to the battery with clamps or ring terminals. It is good practice to fit a fuse between the battery and regulator.
- Next, connect the cable from the solar panel into the screw terminals marked with a solar panel symbol on the regulator. If the connection is correct and the panel is in sunshine the charging LED will be either a solid or flashing green.





4- LED Indicators and troubleshooting



Green LED:

Off: No sunlight or not enough sunlight. Charger off.

Fast flashing: Bulk charge. On: Absorption charge. Slow flashing: Float charge.



LED=Green: battery fully charged (> 12,7V) LED=Orange: battery ok (12,4V - 12,7V) LED=Red: battery low (11,2V - 12,4V)

LED=Flashing Red: battery fully discharged (< 11,2V)

(load output cut off level: 11,2V)



LED=ON: load output is on. LED=OFF: load output is off.

LED=Slow flashing: Overload.

LED=Fast flashing: Short Circuit

Please note:

- The load output will cut off in case of over load or short circuit. The load output will attempt to restart after 30 seconds.
- After over discharge, the load will reconnect automatically when the battery is recharged to 13,1V / 26,2V.
- After over discharge, the load can be reconnected manually by pressing the on/off push button, if the battery voltage exceeds 12,6V / 25,2V.

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