

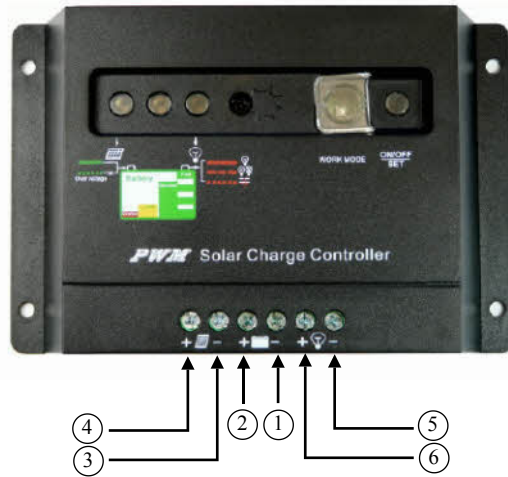


INSTRUCTION MANUAL

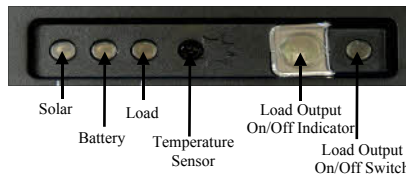
-----For solar charge controller





INSTALLATION

Connect wires in order indicated 1 to 6
 Use with 12V/24 batteries only
 Use with 12V/24 systems only
 Do not exceed Solar and Load ratings
 (15A or 20A), depending on version



LED INDICATORS



 Solar Panel	Green ON when the Solar Panel is charging the battery Green blinks when the system is over voltage
 Battery	Green ON when the battery level in the correct range Green slowly flashing when battery level is
	Red ON when the load switches off Red slowly flashing when the unit is overloaded (the load amps is 1.25 times the rated current for 60 seconds, or the load amps is 1.5 times the rated current for 5 seconds) Red fast flashing when the load is short-circuit.
	Red ON when the switch is ON (load output terminals on). Red OFF when the switch is OFF. (load output terminals off).

Temperature Sensor

The Sensor measures the ambient temperature around the battery and chargers accordingly.

Please note:

1. the output will cut off once there is a over load or short circuit. Press the on/off switch, the controller will resume to work after 30 seconds.
2. After over discharge, the controller will resume when the battery is charged to 13.1V.

(for 12V system only, for 24v, use 2X)

After over discharged, the controller will resume to work while you press the power switch.

Note: the battery voltage needs to be over 12.5V.

To correct problem

1. Check wires
2. Reduce load amps if needed
3. Reset controller

Disconnect battery +

Reconnect battery +

RATINGS (12V or 12/24V auto work)

240Watts or 15 Amps for Solar and Load

340Watts or 20 Amps for Solar and Load

NOTES: For use with solar panels only

TECHNICAL INFORMATION

Regulations point	14.4 Volts
Low voltage Disconnect	11.1V Volts
Low voltage Reconnect	13.1Volts

Note: Figures are for 12V system only, use 2x for 24 Volt system

Microcontroller digital accuracy

Type of Charging Series PWM & state of charge(SOC)
4 Stages: PWM, Equalization, Boost and Float,
temperature compensated charging

Electronic protections Short circuit and over-currentsolar and load
Reverse polarity solar, load, battery
Reverse current at night
Limits high voltage to protect loads
Lighting protection

Tropicalization Conformal coated printed circuit board

Terminals For wire sizes to 6mm²

Weights 200g

Dimension 141.2*95.3mm

Self-consumption 6mA maximum

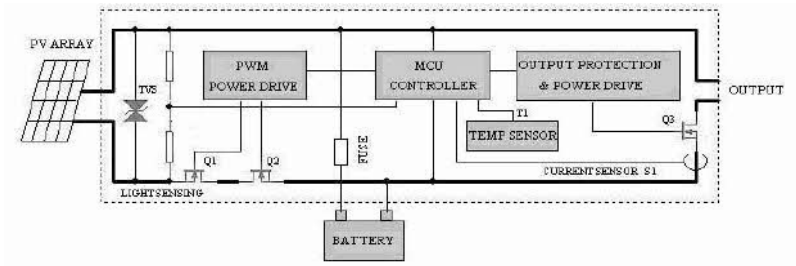
Temperature -35° to +55°

Enclosure IP22

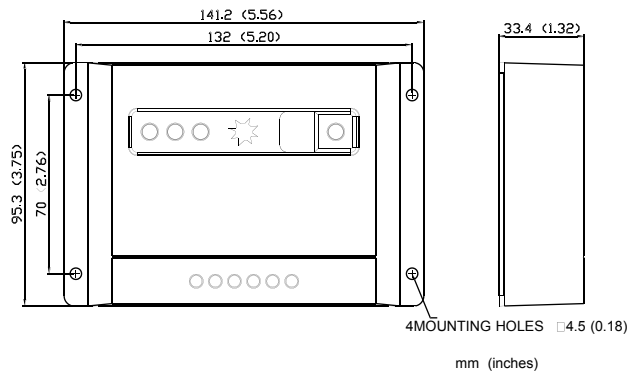
Warranty 3 years

Compliance CE

SYSTEM MAIN CIRCUIT DIAGRAM



MECHANICAL DRAWING



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