

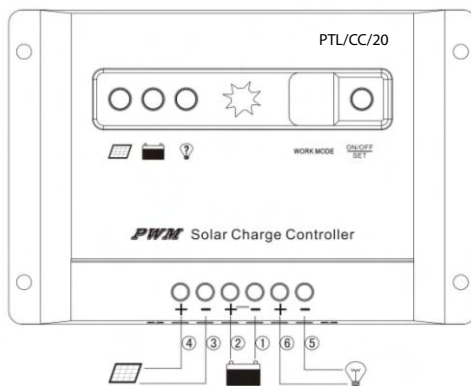
SOLAR CHARGE CONTROLLERS

INSTRUCTION MANUAL

-----For solar charge controller,

-----PTL/CC/20 series

INSTALLATION



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

LED INDICATOR



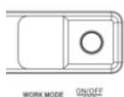
Green ON when solar is charging battery
Green blink when the system over voltage



Green ON when battery level in the right range
Green slowly flashing when battery level full
Yellow ON when battery level low
Red ON when loads cut off



Red slowly flashing when its over load
(the load amps is 1.25 times of rated current for 60 seconds, or the load
amps is 1.5 times of rated current for 5 seconds)
Red fast flashing when the load is short-circuit.



Red ON when the switch is ON.
Red OFF when the switch is OFF.

Please note:

1. the output will cut off once there is over load or short circuit. Press the power switch, the controller will resume to work after 30 seconds.
2. After over discharged, the controller will resume to work 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 amps if needed
3. Reset controller

Disconnect battery +

Reconnect battery +

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

EPIP20-15 240Watts or 15 Amps for Solar and Load

EPIP20-20 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 13.1 Volts

Note: all is for 12V system only, use 2x for 24 Volt system

Microcontroller digital accuracy

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

Electronic protections Short circuit and overcurrent-solar 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

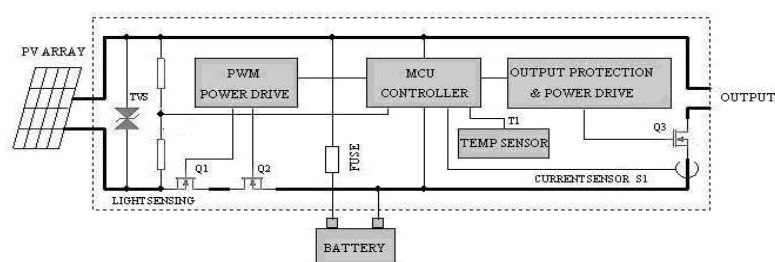
Temperature -35? to 55?

Enclosure IP22

Warranty 3 years

Compliance CE

SYSTEM MAIN CIRCUIT DIAGRAM



MECHANICAL DRAWING

