

Product Specification for Solar Charger Controller with 12V 120W Output for Lead Acid Battery



(<http://www.batteryspace.com>)

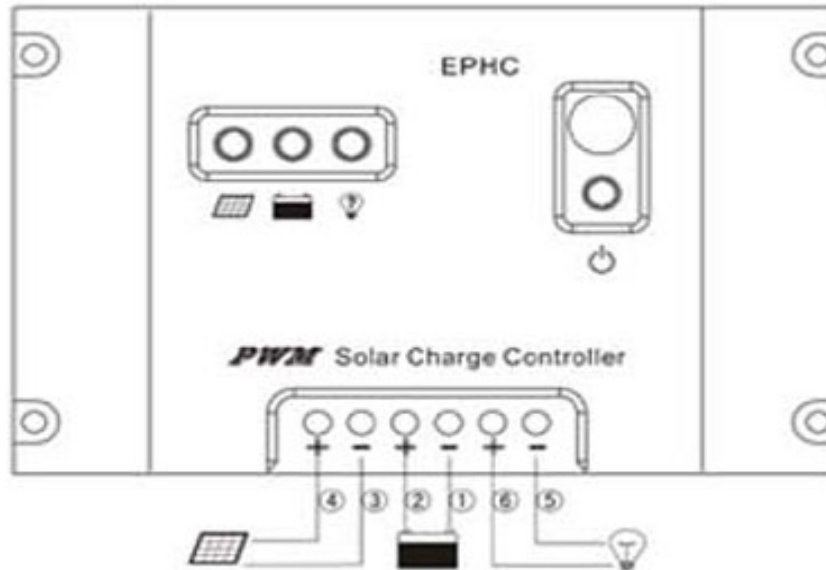
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Installation Instuction



- Connect wire in order indicated 1-6.
 - Channel #1,2 for SLA 12V battery,
 - Channel#3,4 for Solar panel
 - Channel#6,5 for either 12VDC device or DC-AC regulator (12VDC to 110VAC, 120W Max)
- Use with 12V batteries only
- Use with 12V system only
- Do not exceed Solar and Load rating 10Amp

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 amp is 1.25 times of rated current for
60 seconds, or the load amp is 1.5 times of
rated current for 5 seconds)
Red blink 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)

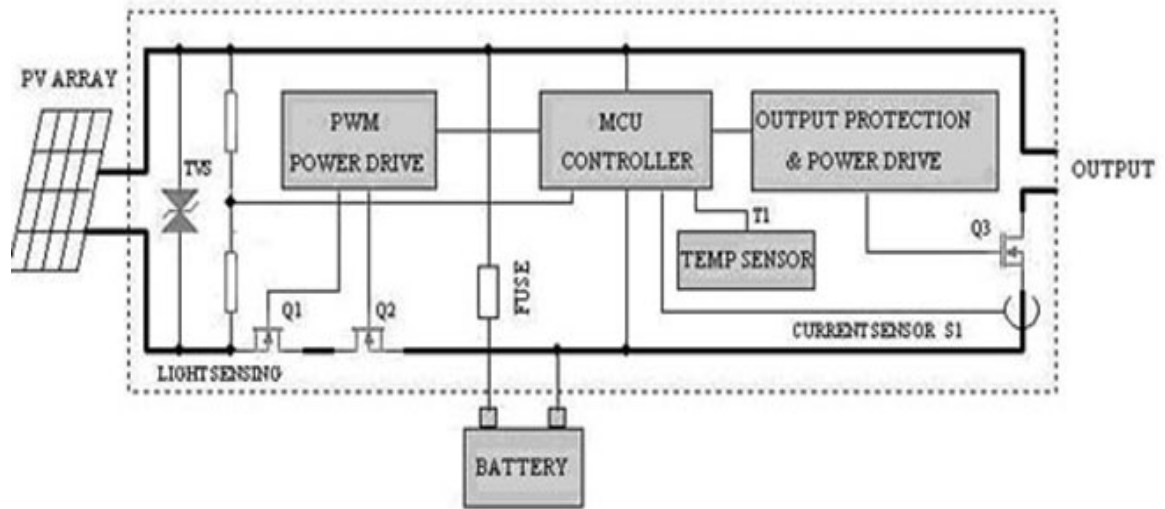
EPHC-5 80Watts or 5 Amps for Solar and Load
EPHC-10 170Watts or 10 Amps for Solar and Load

NOTES: For use with solar panels only

TECHNICAL INFORMATION

- Regulations point 14.4 Volts
 - Low voltage Disconnect 11.1 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: equalization, PWM, Boost and Float,
temperature compensated charging
 - Electronic protections Short circuit and over current-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 2.5mm²
 - Weights 250g
 - Dimension 140*90.5mm
 - Self-consumption 6mA maximum
 - Temperature -35°C to 55°C
 - Enclosure IP22
 - Warranty 3 years
 - Compliance CE

System main circuit diagram



Mechanical Drawing

