

[Skip to content](#)

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# **EPROPULSION Solar Charge Controller User Manual**

Home » [EPROPULSION](#) » EPROPULSION Solar Charge Controller User Manual 

**EPROPULSION Solar Charge Controller User Manual**



## Contents [ [hide](#) ]

- [1 Introduction](#)
- [2 Packing List](#)
- [3 Specifications](#)
- [4 Operations](#)
- [5 LED Indicator](#)
- [6 Notes](#)
- [7 Warranty](#)
- [8 File Downloads](#)
- [9 Related Manuals](#)

## Introduction

Thank you for purchasing ePropulsion Solar Charge Controller. This solar charge controller is specially designed for SPIRIT Battery. Fast Maximum Power Point Tracking (MPPT) technology (efficiency  $\geq 99.9\%$ ) precisely positions the maximum power point of PV cells thus drawing more Photovoltaic energy. With improved system efficiency, the charging conversion efficiency reaches as high as 90%. The controller is not only designed to work perfectly with a wide variety of solar panels with input voltage  $\leq 35V$  eg.e Propulsion Foldable Solar Panel, but also can get power from other sources with input voltage of 12V DC.

## Packing List

Item	Qty
Solar Charge Controller	1 Set
12V Input Cable	1 PC
Manual	1 PC

## Specifications

## Battery

Rated system voltage	46.2V
Charging Voltage Range	39 – 46.2V
MPPT Charging Voltage @25C	46.2V
CV Charging Voltage @25 C	46.2V
Maximum CC Charging Current	3A

## PV

Power	180W
Maximum Input Charging Current	10A
Open Voltage	35V
MPPT Tracking Range	12V .if>.fl5V

## System

MPPT Efficiency	a.99.9%
Power Consumption	< 20mA
Temperature Protection	> 80 C
Storage/Operation Temperature	-35 – 60 C
Storage/Operation Humidity	65°/0±25%RH
Altitude	3000m
Protection Grade	IP65
Certification	CE
Power Display	1 Bi-colored LED
Weight	1.25kg
Dimensions	153 x 101 x 49 mm
12V Cable length	Approx. 0.5m

## Operations

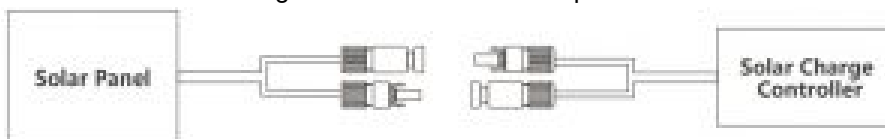
- **Step 1:** Connecting to SPIRIT Battery.



- **Step 2:** Connecting to Power Source

1. **Connecting to a Solar Panel**

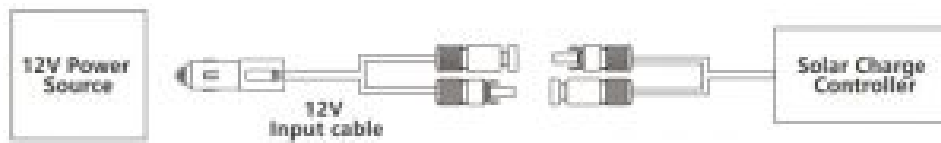
Connect the solar charge controller to the solar panel.



**Input voltage of solar panel should be  $\leq 35V$**

2. **Connecting to 12V Power Source**

First Connect the solar charge controller with the 12V Input Cable, then connect the 12V Input Cable to the 12V power source on your boat or car.



💡 If the red light blinks when well connected, it indicates the charger is in charging mode. When fully charged, the light turns steady green.

💡 The maximum input charging current is 10A, so if connected to a 12V power source, the maximum input power will be 120w.

## LED Indicator

There is a bio-colored LED indicating mode of the solar charger.

LED Color	LED Status	Mode
Green	Flashing light	Standby
Green	Steady light	Fully Charged
Red	Flashing Light	Abnormal
Red	Steady Light	Charging

## Notes

- Do not puncture, throw, drop, bend or modify the Solar Charge Controller.
- The controller should be used in well ventilated, dry, particle free environment.
- The controller should avoid direct sun exposure.
- The aluminum case is an important means of heat dissipation, thus should not be covered.
- Opening the housing of the charger without prior written consent of the manufacturer voids the manufacturer's warranty immediately.

## Warranty

ePropulsion Solar Charge Controller is guaranteed against any manufacturing defects for TWO years from date of purchase. Free warranty is only validated upon the presentation of legal serial number, Warranty Card, and evidence of purchase from an authorized ePropulsion dealer.

### Conditions:

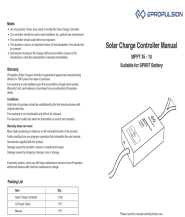
Valid date of purchase should be established by the first-hand purchaser with original sales slip. Free warranty is not transferable and will not be reissued. The warranty is valid only when the information is correct and complete.

### Warranty does not cover:

- Minor faults producing no influence on the intended function of the product.
- Faults resulting from any improper operation that contradicts the user manual. Accessories supplied with the product.
- Damage caused by accident, misuse or unauthorized repair.
- Damage caused by dropping, improper care or storage.

If warranty expires, users can still enjoy maintenance services from ePropulsion authorized dealers with minimum maintenance charge.

## File Downloads



EPROPULSION User Manual

[Download](#) [optimized]

Solar Charge Controller, MPPT 35-10, Suitable for SPIRIT Battery [Download](#)

## Related Manuals

1. [TP solar SDN-P Series Waterproof Solar Charge Controller Instruction Manual](#) TP solar SDN-P Series Waterproof Solar Charge Controller Instruction Manual...
2. [RENOGY Solar Charge Controller Owner's Manual](#) 10A PWM Solar Charge Controller Version 1.0 Important Safety Instructions...
3. [Grape Solar PWM Charge Controller User Manual](#) Grape Solar PWM Charge Controller User Manual Please review this...
4. [HP Smart Solar Charge Controller User Manual](#) HP Series Smart Solar Charge Controller HP2430/2440/2450/2460 HP4830/4840 UserManual Dear...
5. [SRNE MC Series MPPT Solar Charge Controller User Manual](#) MC Series MPPT Solar Charge Controller...
6. [POWERTECH 12V 130W Folding Solar Panel and Charge Controller User Manual](#) POWERTECH 12V 130W Folding Solar Panel and Charge Controller User...