

1. Overview

With CPU control and PWM technology, the charger has the advantages like high efficiency, good stability, low-carbon and energy-saving. Three-section charging mode --- Controlling the charging current and voltage automatically and precisely, both ensure that battery is charged fully, and not over charged. Your battery life will be protected.

2. Unpacking Inspection

Open the package case, check the items shown on Table 1 carefully to check any missing or damaged part.

Table 1. Unpacking Inspection

Item	Description	Qty
1	Charger	1
2	Operating manual	1
3	AC wire	1
4	Output fuse	1
5	Output wire	1
6	Screw	6

3. Charger Model & Parameter

3.1 Model series

- 600W

3.2 Rated input voltage

- 100 / 240V

3.3 Constant voltage

- 43.8V

3.4 Floating charge voltage (For lead-acid battery)

- 41.4V

3.5 Constant current

- 10.1~15.0A

3.6 Light turn green

- 5-10%CC

4. Operating Instruction

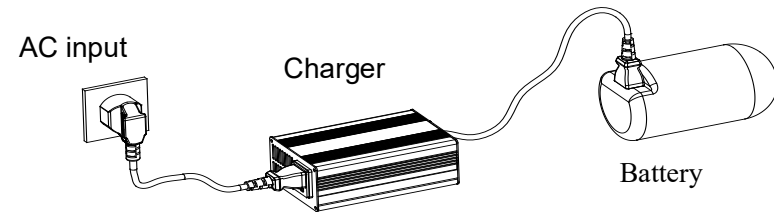


Fig 1. Connection diagram

4.1 Before charging, please connect the DC terminal to battery firstly, and then connect the AC terminal.

4.2 LED status

LED status	Charger Status
Green On	Charged
Red On	Charging
Red Flash	Fault

5. Matters Need Attention

5.1 Do not cover the charger with any objects while charging.

5.2 Place the charger out of reach of children.

5.3 The charger meets IP65 protection grade and can be used outdoors or on boats. Although the waterproof charger is designed to resist water ingress, it is still advisable to avoid immersing it in water or exposing it to extremely humid environments. When using the charger, ensure that it remains dry as much as possible to reduce the potential risk of malfunction.

5.4 Avoid excessive pulling: When charging, avoid excessive pulling on the cable to prevent damage to the wire or plug. Handle the charger and cable with care to ensure their long-term use.

5.5 Precautions for long-term use: If the waterproof charger needs to be used for an extended period, such as during outdoor camping, regularly check the charger's condition and sealing performance. If any damage, wear, or decrease in water sealing is detected, stop using the charger and have it repaired or replaced.

5.6 Storage and maintenance: Properly store and maintain the charger when not in use. Avoid exposing the charger to extreme temperatures, humidity, or direct sunlight to extend its service life.

5.7 The manufacturer is not responsible for any losses caused by failure to follow the instructions. The manufacturer does not assume any responsibility for resulting damages.

6. Maintenance

WARNING: Before conducting the following operations, make sure the charger is disconnected with the battery and power connection.

6.1 Routine maintenance

- Clear dust on vents and fan regularly, to ensure the charger has good heat dissipation.
- Periodically wipe the case with a cloth with some alcohol.
- Do not use or store the charger in a place of humidity or high temperature.

6.2 Replace the fuse

If the charger can not charge, please confirm the output fuse is blown out. Install only replacement fuse with the identical type and specification as follows and make sure the fuse is fixed firmly in the fuse holder.

This Operating Manual covers information on safety and cautions. Please read it carefully before charging

OPERATING MANUAL