

# SMART CHARGER

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## 12V10A 24V5A



\*Please read this manual in detail before use

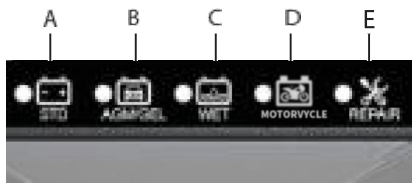
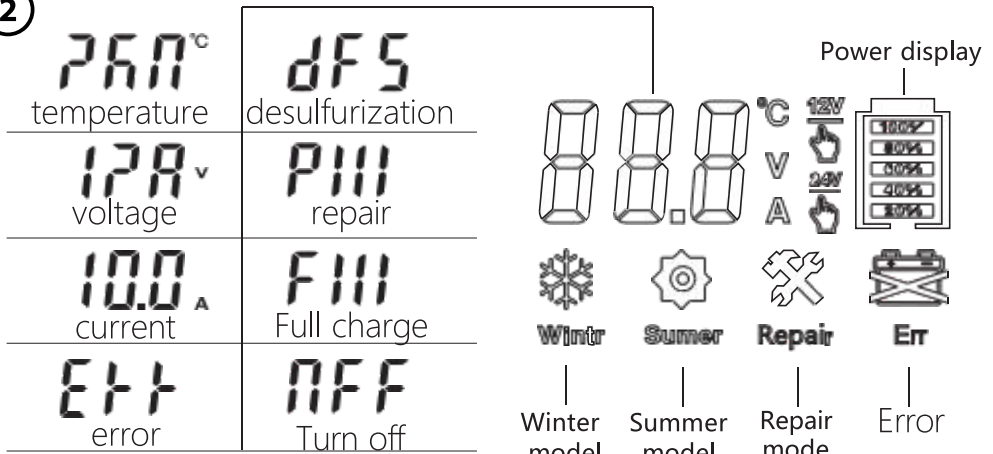
# USER MANUAL

# Charger components and display instructions



- 1. Mode switch button      2. Charger display      3. Black clip (-)
- 4. Red clip (+)              5. Power input line      6. Mode indicator light

2



- A.**STD
- B.**AGM/GEL/EFB,etc.
- C.**WET
- D.**MOTORCYCLE
- E.**Repair

## Charger operation method

1. Check whether battery parameters match the charger
2. Connect the charger power cable to the mains
3. Clamp the output cable clips to both ends of the battery, with the red terminal and the black terminal
4. Choose the mode suitable for the battery (refer to "Product Mode Selection" in this manual)
5. When the charging device displays "FUL", it means that the battery has stopped charging. At this time, disconnect the power  
10 seconds later, check the battery capacity and disconnect the cable clip.

## Charging modeselection

①



STD:

It is suitable for ordinary lead-acid storage battery and maintenance-free battery. After starting in this mode, the screen will show "DFS", which is the desulphurization stage. About 5 minutes later, it will automatically switch to the charging state. (A indicator light)



AGM/GLE:

Suitable for AGM/GLE/EFB battery (B indicator light)



WET:

It is suitable for charging water and electricity bottles. After starting in this mode, the screen will show "DFS", which is the desulphurization stage. About 5 minutes later, it will automatically switch to the charging state. (C indicator light)



MOTORVYCLE:

Suitable for charging motorcycles



REPAIR:

Suitable for faulty batteries that cannot be charged properly. In this mode, the screen only displays "PUL".

②

12V STD.....	Max 14.7V
24V STD.....	Max 29.4V
12V AGM/GLE.....	Max 14.7V
24V AGM/GLE.....	Max 29.4V
12V WET.....	Max 15.5V
24V WET.....	Max 31V
12V LIFEPO4.....	Max 14.6V
24V LIFEPO4.....	Max 29.2V

\*Make sure that the battery matches the charger. If you cannot confirm, contact the battery dealer or manufacturer.

## Charging schedule

Battery capacity	12V10A Charging time	24V5A Charging time
50AH	3.1H	6.5H
120AH	7.5H	15H
150AH	9.5H	19H
200AH	12.5H	25H

## Product parameter

Input voltage :AC110-220V 50-60Hz

Size: 158x95x62mm

Output voltage :12V-15.5V/24V-31V

Net weight: 560g

Output current :DC12V10A/24V5A(Max)

Application scope: 12V 50Ah-200 AH, 24V 25Ah-150Ah

## Temperature compensation

Winter: ❄️ The mode is automatically entered when the room temperature is below 10°C.

In summer: ☀️ When the room temperature is higher than 27°C, the mode is automatically entered.

Room temperature within 10-27°C for normal temperature (do not show the icon), charging process, micro electricity

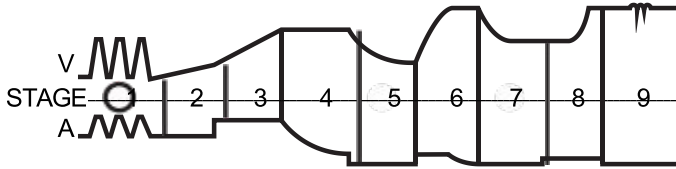
The brain automatically detects the ambient temperature, and adjusts the environment automatically according to the detected ambient temperature Charging state, prolong the battery life.

## Repair function

1. Connect the battery and plug it in. Press the Mode button five times to enter repair mode.
  2. It is recommended to repair for about 4 hours (if the battery is not hot, the repair time can be extended appropriately).
  3. The repair mode also has current. After the fix is complete, FUL will appear on the screen.
- \* Lead acid battery in the repair process, if serious fever should immediately stop repair! (The main reason for the repair of fever is because the battery is seriously vulcanized or the battery is short of liquid, and a new battery needs to be replaced)

## 9-stage charging

9 charging stages gently and accurately charge the battery.



- |                        |                        |                                       |
|------------------------|------------------------|---------------------------------------|
| 1. Battery desulfation | 4. Absorption charging | 7. Recondition charging               |
| 2. Soft start charging | 5. Trickle charge      | 8. Float&maintenance charging         |
| 3. Bulk charging       | 6. Battery test        | 9. Small current to maintain charging |

## Safety Precautions

1. It is strictly forbidden to charge the scrapped, non lead acid or non voltage batteries. It is strictly forbidden to dismantle the high—voltage batteries in the machine without permission, and it is forbidden to approach the open fire when charging;

2. To charge the vehicle or equipment, please remove the battery and put it in a safe space without inflammables. Otherwise, you will be responsible for the accident!

3. When the charging time is more than 12 hours and no one is watching, the power supply should be cut off, and charging for a longtime is strictly prohibited!

4. Do not charge the non rechargeable battery!

5. For indoor use, beware of rain. During charging, the charger must not be covered and must be placed in a well ventilated place. It is strictly forbidden to put it in or on the car for charging. Be careful of flame, spark and explosive flammable gas to avoid fire;

6. If the power cord is damaged, in order to avoid danger, it must be replaced by the manufacturer or its maintenance department or similar professionals;

7. Before connecting or disconnecting the battery charger to the battery, disconnect the power supply.

\*Please read the above safety precautions carefully. If the above matters are violated, the charger may be damaged or personal and property losses may be caused. If the product is damaged due to the violation of the above items, it will not enjoy the warranty service; We are responsible for the personal and property losses caused by it. We must be aware of it!