

**1. Advanced constant current (CC) and constant voltage (CV) for charging:**

We use the technology of CPU controlling and PWM, so that we can control charging current and output voltage of the charger. In this case, we can make sure that the battery can be fully charged and avoid over charging.

## 2. Technical Index:

The model of charger	EMC-180
Working temperature	<40℃
Input voltage	AC: 110V
Charge voltage	29.4V ± 0.5
Constant charging current	5A ± 0.5
Shut off point current	0.25A
Weight	0.9kg

### 3. The usage of product

- 3.1 Please check the output plug of charger, and make sure that the plug is inserted correctly.
- 3.2 Please connect the output plug of charger to the interface of the cells of battery before charging. Then connect the power plug of the charger to interior power source.
- 3.3 The charger charges by using CC,CV intelligent charging way. After fully charged, the charger turns off automatically. Please firstly disconnect DC plug, then disconnect AC plug.
- 3.4 Please make sure to disconnect AC plug of the charger when it is no charging or fully charged.
- 3.5 The instruction of charger's indicator light
  - 3.5.1 When charging, if the indicator light turns red, it means normal charging. If the light turns green, it means full charge. Then you can use the battery.
  - 3.5.2 The charger works when connecting with the battery which is lack of power..
  - 3.5.3 The first time for charging should be 24h.. When the charging LED turns to green,that means the battery has been fully charged. After that,charging extra 30 minutes will balance each cell.

#### 4. Operation, Maintenance and Attention

- 4.1 There are high voltage and danger of the charger. Please contact us if in the event of the failure. Do not open the charger by user and non-professional servicing of our company.
- 4.2 To avoid damp environment, and do not use this charger in wet place.
- 4.3 Do not use this charger in the place where near the heat source or direct sunlight.
- 4.4 It should be in a clean and ventilated place when charging.
- 4.5 Do not cover the air outlet. Please keep a 10-metre distance from the air outlet.
- 4.6 Do not cover the charger. Keep it far away from the children.
- 4.7 Please in a place where is good for radiating when charging. Do not use it in the wet, high temperature, inflammable and flammable condition.
- 4.8 Do not carry this charger with your vehicle, or it may be broken.
- 4.9 Please read the instruction carefully before using this charger. We are not responsible for the incorrect operations.

## 5. Quality Guarantee

- 5.1 The technical performances accord with relative regulations of our Company.
- 5.2 When opening the carton and finding the product is damaged, please contact us immediately.
- 5.3 Warranty Period : 12 Months from the date of delivery
- 5.4 Attentions to the unexecuted Three-guarantee:
  - a. Surpass the warranty period
  - b. Without warranty certification and effective bills
  - c. The damages which caused by operating without our instruction
  - d. Sealing sign has been broken
  - e. The damages caused by force majeure
  - f. Warranty service is only used for charger itself. The damages which caused by ineffective charger do not belong to the extent of liability.

**Packing list:** a charger, a manual,  
a output cable, an input cable