



## Specification for RT02-1230(12V3.0A)

### 1. Input Data:

#### 1.1 Input Voltage & Frequency:

Input Voltage 100~240VAC, Frequency 47Hz~63Hz

#### 1.2 Efficiency:

More than 85% (load current of charger is 3.0A)

#### 1.3 Input current:

Don't exceed 2.0A

#### 1.4 Input Surge Current:

When Voltage is 240VAC, Input Surge current can't exceed 50A

#### 1.5 Input Leak Current:

When voltage is 240VAC, leak current is less than 0.25mA.

### 2. Output Data:

#### 2.1 Output Charging Voltage:

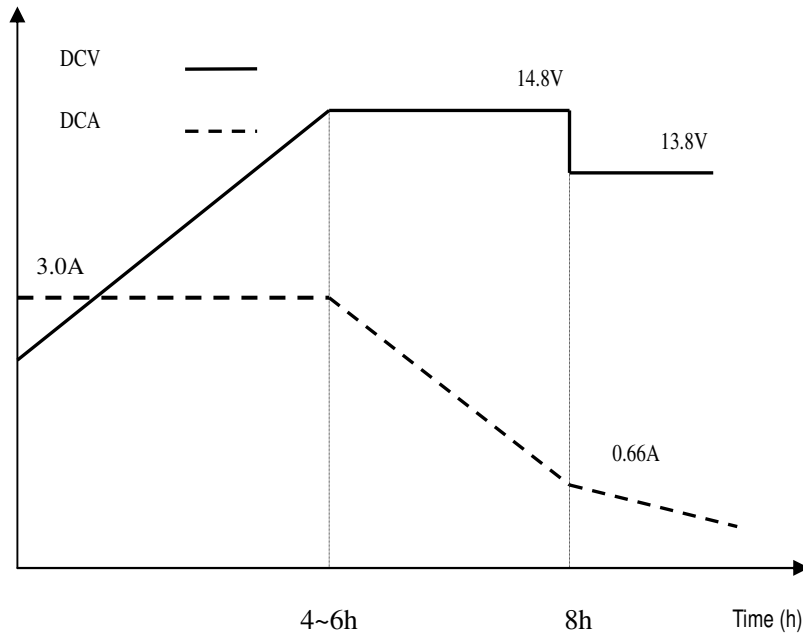
Maximum charging voltage: DC  $14.8 \pm 0.20V$ , float charging voltage DC  $13.8V \pm 0.20V$

#### 2.2 Output Charging Current (limited current):

Rating charging current is DC 3.0A , in the range DC 2.7A----3.3A

#### 2.3 Output Charging Characteristic:

Relationship between voltage, current and time is as following chart:



Mark: this chart is for 1pc 12V20AH battery charging characteristic, for other 12V battery, charging time should be adjusted accordingly.

## 2.4 Short Circuit Protection:

This charger wouldn't be damaged in any time of short circuit.

## 2.5 Stability of Circuit:

Within input voltage range, the charger would keep stable and don't happen self-dash situation under any load.

## 2.6 Charging Display:

Charging period is red light, float charging is green.

## 2.7 Caution: the charger would be damaged if bettery misinput charger's plus and minus.

# 3. Mechanism Characteristic:

## 3.1 Material

Case: PC+ABS black, with brochure and label

Input Plug: UL standard plug, 0.75\*2 AC wire, length 1.2m;

Output Wire: 1185AWG#22 ; PVC; 1.2m black .

### 3.2 Dimension: L 118mm W 60mm H 37mm



### 3.3 Fall Test

With the height of 1.0m, charger fall off to 10mm pine board, 4 times/ each face;

Requirement: no crack on charger, no parts become flexible; all electric data is normal;

### 3.4 Libration Test:

Put charger on libration desk,finish test with following condition::

Frequency: 5-55Hz

Range:  $\pm 1.5$ mm

Acceleration: 20m/s

Direction: X/Y/Z 3 ways

Test Time: 1h

Requirement: no any damage, all electric data is normal

### 3.5 High Voltage Performance:

Put high voltage 3,000VAC between input and output, leak current is less than 10mA, continue 60 seconds, 1 second for production line.

## 4. Others



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### 4. 1 Stock Environment

Temperature : -25° C----+70° C; Humidity: 5% - 90%;

### 4. 2 Work Environment

Temperature:- 0° C----+40° C, Humidity: 5% - 90%;