Specification of Intelligent 3-Phase Charger

Model No. : RT02D-2420(24V2.0A)

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 2.0A）;

1.3 Input current：below 1.5A, when battery runs normal work;

1.4 Input Surge Current: When Voltage is 240VAC，Input Surge current is less than 50A;

1.5 Input Current Leakage: when voltage is 240VAC，leak current is less than 0.25mA;

2. Output Data:

2.1 Output Charging Voltage:

Maximum charging voltage：DC 29.6±0.30V，float charging voltage DC 27.6V±0.30V

2.2 Output Charging Current (limited current):

Rating charging current is DC 2.0A ， in range DC 1.8A---2.2A;

2.3 LED Display:

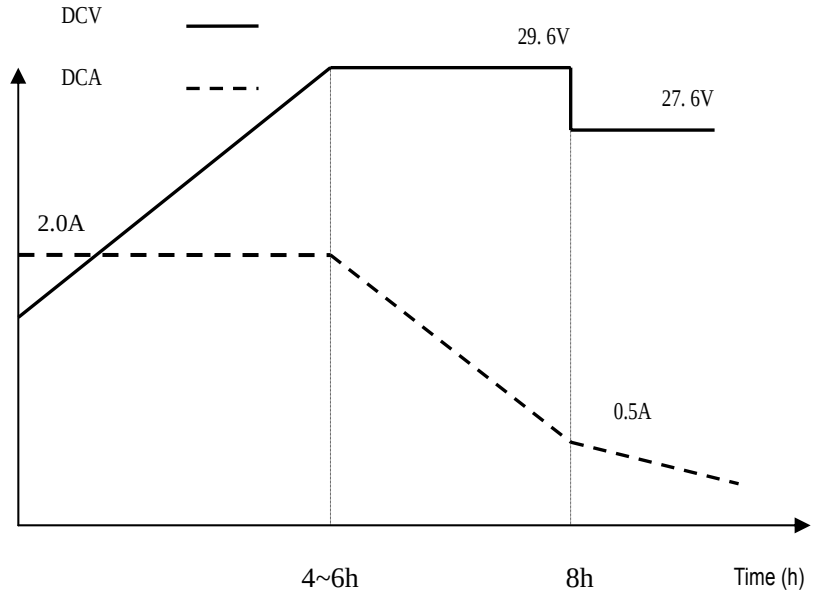
1st step : LED → green (indicates power on)

2nd step: LED → red (indicates bulk charge)

3rd step: LED → green (means battery is ready to use and charge turns to float charge stage)

2.4 Output Charging Characteristic:

Relation between output voltage, current and time is as following chart:



Note: this chart is for 12V12AH battery, 2pcs use, for other 12V battery, the charging time should be adjusted accordingly.

2.5 Short Circuit Protection：This charger wouldn't be damaged in any time of short circuit.

2.6 Stability of Circuit：within the input voltage range, the charger will keep a stable performance whilst under any load;

2.7 **This charger has a Polarity Protection System and will not be damaged if the polarity of connection is accidentally reversed.**

3. Mechanism Characteristic:

3.1 Materials used in construction

Case：PC+ABS black;

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

Output cable: AWG18# ; PVC; 1.2m black

3.2 Dimensions：L 118mm W 60mm H 37mm

3.3 Dropping Test

Charger dropped from 1.0m height to a 10mm pine board, repeat it for 4times with charger each side;

Result: no crack / break, no parts become flexible or not fastened; all related data remains correct.

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

3.4 Vibration Test:

The charger was placed upon a Vibration desk:

Frequency: 5-55Hz

Range:±1.5mm

Acceleration: 20m/s

Direction: X/Y/Z 3 directions

Test Time: 1h respectively

Result: no any damage/degeneration, all related data remains correct.

3.5 High Voltage characteristics:

A high voltage of 3,000VAC between input and output terminal，current leak is lower than 10mA，continue 60 seconds; 1 second for production line.

4. Others

4. 1 Stock Environment

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

4. 2 Work Environment

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