



## Product Specification

**Product name: Intelligent Charger For Lead-Acid Battery**

**Product type: AC-DC adapter**

**Product model: MWCC01A**

### 1. Basic description:

Purpose	The product applies to 6V/12V lead-acid cell and all kinds of cell with different capacitance. The whole charging process is controlled by built-in MCU smartly.
Types of chargeable battery	lead-acid of Wet, MF, VRLA, AGM and GEL 6 V: 1.2 Ah to 14 Ah 12 V: 1.2Ah to 14 Ah
MODE Switch	Choose switch manually. 2 different kinds of charging mode: 1. 1.0A charging mode for 6V battery 2. 1.0A charging mode for 12V battery
Indication	6PCS LED Charging status indication. For the detailed indication, please refer to LED functions.
Charge control type	CC/CV
INPUT	AC plug with 1.8m cable
OUTPUT	1.8m charge cable with alligator clip(Black and Red)
product dimension	L 82* W 48.6* H 72.1mm
color	
weight	g(exclude packaging)
temperature of operational environment	0°C - 25°C
storage temperature	-25°C - 45°C
Safety class	CLASS II
Certifications	GS/CE
Waterproof Class	IP65

### 2. Rating :

Input	220-240V AC 50Hz 180mA
Output current	1.0A Max.
charging voltage	7.3V / 14.4V
Charging current	0.5A $\pm$ 10% 1.0A $\pm$ 10%
Charge battery type	Battery type: Wet, MF, VRLA, AGM and GEL. 6 V lead-acid battery 12 V lead-acid battery

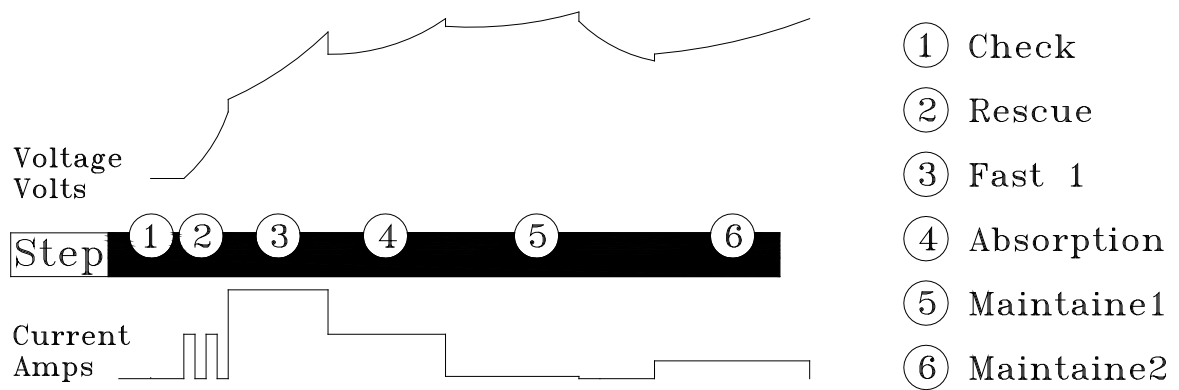
### 3. Electrical Features:

Item	Index	Description
INPUT VOLTAGE	220-240V AC 50Hz	the range of input voltage of the charger
STAND- BY POWER	<1W	standby power consumption
REVERSE CURRENT	<1mA	the reverse current when there is no AC power connected with batteries.
CHARGE CONTROL TYPE	CC/CV	control type during charging
TRICKLE CHARGE CURRENT	20-50mA	the range of trickle charging current
EFFICIENCY	>70%	conversion efficiency
SHORT-CIRCUIT PROTECION	YES	output short-circuit protection
WRONG POLARITY PROTECTION	YES	protection against contrary connection of polarity
SMART RECOGNITION OF BATTERIES	6V battery: 2.0-7.5V 12V battery: 8.0-15V	to recognize different kinds of battery according to the voltage range
6V 1.0A step II charging	2.0-5.3V 0.5A pulse charge 5.3-7.05 V 1.0A => waiting for 3s 7.05-7.2V 0.5A => trickle charge 50mA Full go to trickle charge maintain<6.4V 6.4-6.85V 1.0A cycling	Low temperature mode: 2.0-5.3V 0.5A pulse charge 5.3-7.05 V 1.0A => waiting for 3s 7.05-7.35V 0.5A (>7.2V timer 10h) => trickle charge 50mA Full go to trickle charge maintain<6.4V 6.4-6.85V 1.0A cycling
12V 1.0A step II charging	8.5-10.5V 0.5A pulse charge 10.5-14.1V 1.0A => waiting for 3s 14.1-14.4V 0.5A => trickle charge 50mA Full go to trickle charge maintain<12.8V 12.8-13.7V 1.0A cycling	Low temperature mode: 8.5-10.5V 0.5A pulse charge 10.5-14.1V 1.0A => waiting for 3s 14.1-14.7V 0.5A (>14.4V timer 10h) => trickle charge 50mA Full go to trickle charge maintain<12.8V 12.8-13.7V 1.0A cycling

#### 4. LED function

Item	Indication	LED color
Stand- By	Stand- By LED Light	Red
6V 1.0A battery charge	6V battery indication	Green
12V 1.0A battery charge	12V battery indication	Green
Charging	Charging	Red
Charge Full	Charge Full indication	Green
Error	wrong polarity indication	Red

#### 5. Charging steps (charging Voltage & charging current)



#### 6. Sketch/photo

# CASE & CORD DIMENSION

