

深圳市汇德泰商贸有限公司  
Shenzhen Huidetai Trading Co., Ltd

# CHARGER MANUFACTURER

## 充电器制造商

深圳市汇德泰商贸有限公司  
Shenzhen Huidetai Trading Co., Ltd

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# ENTERPRISE HONOR

## 企业荣誉



## COMPANY PROFILE

### 公司简介

深圳市汇德泰商贸有限公司成立于2015年，是深圳一家专业充电电源研发，制造，销售一体化的高科技技术公司。公司主要为国内外各大电动车厂，新能源电池，AGV仓储运输，AI机器人等配套充电电源，公司以诚信为本，安全有效为核心价值，通过我们的专业水平和不懈努力，为客户提供优质，安全，可靠的产品和及时，周到，耐心的售后服务。

我们的主要产品：

锂电池充电器：用于对磷酸铁锂电池，锂电子电池，理聚合物电池，锰酸锂电池等电池充电。

铅酸电池充电器：用于对AGM,胶体电池，硅胶电池等电池充电。

主要适用范围：电动工具，电动单车，电动摩托车，电动扫地车，电动沙滩车，电动汽车等。

充电器的输出电压/电流范围：3Vdc to 420Vdc/0.5A to 200A

输出功率范围：50W to 2500W

Shenzhen Huidetai Trading Co., Ltd. was established in 2015 and is a high-tech technology company specializing in the research and development, manufacturing, and sales of charging power supplies in Shenzhen. The company mainly provides charging power supplies for major domestic and foreign electric vehicle factories, new energy batteries, AGV warehousing and transportation, AI robots, etc. The company's core values are honesty, safety and effectiveness. Through our professional level and unremitting efforts, we provide customers with high-quality, safe, reliable products and timely, thoughtful, and patient after-sales service.

Our main products:

Lithium battery charger: used for charging lithium iron phosphate batteries, lithium electronic batteries, polymer batteries, lithium manganese oxide batteries, and other batteries.

Lead acid battery charger: used for charging AGM, gel batteries, silicone batteries, and other batteries.

Main application scope: electric tools, electric bicycles, electric motorcycles, electric sweepers, electric beach bikes, electric vehicles, etc.

Output voltage/current range of charger: 3Vdc to 420Vdc/0.5A to 200A

Output power range: 50W to 2500W



## COMPANY ADVANTAGES

### 公司优势

2亿  
200 million

目前年产值8000万，未来三至五年年均产值突破2亿。

Our company has an annual production value of 80 million yuan in currently, and the average annual production value in the next three to five years will exceed 200 million

17年  
17 years

拥有17年专业技术经验团队专注研发、生产充电电源。

With 17 years of professional technical experience, the team focuses on R&D and production of charging power supply.

20个  
20 countries

产品远销欧洲、美洲、北美、东亚、南亚等20个国家。

The products are exported to Europe, America, North America, East Asia, South Asia ect.

35个  
30 series

产品多达35个系列，满足不同产品，不同应用的需求。

Up to 30 series of products can meet the needs of different products and applications.

30项  
20 items

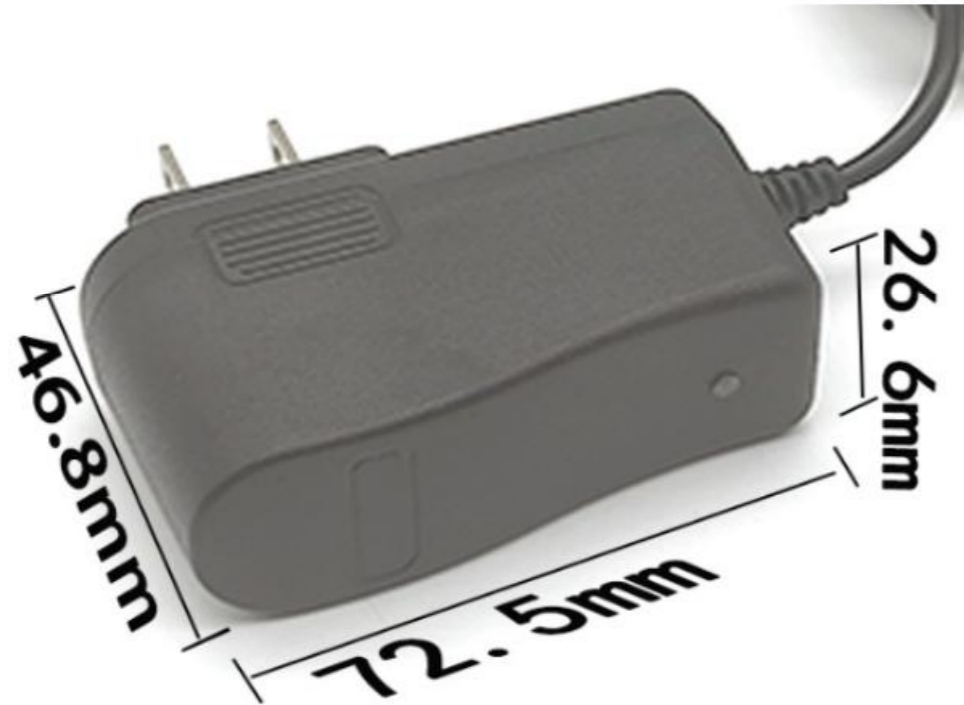
国内外各类专利技术证书30项。

There are 20 kinds of patent technology certificates.





## SJT-5005系统充电器 (12W) /SJT-5005 Serious charger (12w)



输入input: AC 100-240V

### 产品特性 product features

- \*采用简单实用, 稳定可靠的反激式电路拓扑结构
  - \*准谐振脉宽调制 (PWM)技术, 效率高, 稳定性好, 低碳节能, 满足不同电池充电曲线要求
  - \*具有过压, 过流, 过温, 短路, 反接, 充满关断或涓流, 防逆充电等多重保护
  - \*双色LED指示充电状态
  - \*ABS外壳, 美观坚固, 经久耐用
- \*Adopt simple,practical, stable and reliable flyback circuit topology
  - \*Quasi-resonant pulse width modulation(pwm), full automatic transition of CC,CV and Float/Cut off, meet the demands for different Curve
  - \*Protections:Over Current,Over Voltage, Over temperature, Short Circuit,Reverse Polarity, shut off or trickle and anti-reverse charger
  - \*Dual-clor LED charging states
  - \*Economy ABS case, Robust, elegant and Reliable

### 产品参数/product parameters

输出电压 output voltage	4.2V	8.4V	12.6V	16.8V
输出电流 output current	1A-2A	1A-1.5A	1A	1A
效率 efficiency	85%			

## SJT-5004系统充电器 (24W) /SJT-5005 Serious charger (24w)



输入input: AC 100-240V

### 产品特性 product features

- \*采用简单实用, 稳定可靠的反激式电路拓扑结构
  - \*准谐振脉宽调制 (PWM)技术, 效率高, 稳定性好, 低碳节能, 满足不同电池充电曲线要求
  - \*具有过压, 过流, 过温, 短路, 反接, 充满关断或涓流, 防逆充电等多重保护
  - \*双色LED指示充电状态
  - \*ABS外壳, 美观坚固, 经久耐用
- \*Adopt simple,practical, stable and reliable flyback circuit topology
  - \*Quasi-resonant pulse width modulation(pwm), full automatic transition of CC,CV and Float/Cut off, meet the demands for different Curve
  - \*Protections:Over Current,Over Voltage, Over temperature, Short Circuit,Reverse Polarity, shut off or trickle and anti-reverse charger
  - \*Dual-clor LED charging states
  - \*Economy ABS case, Robust, elegant and Reliable

### 产品参数/product parameters

输出电压 output voltage	4.2v	8.4v	12.6v/14.6V	16.8v	21v-29.4v
输出电流 output current	3a	2.5a	2a	2a	1a
效率 efficiency	85%				

## SJT-5003系统充电器 (60W) /SJT-5003 Serious charger (60w)

## SJT-5010系统充电器 (100W) /SJT-5010 Serious charger (100w)



输入input: AC 100-240V

产品特性 product features

- \*采用简单实用, 稳定可靠的反激式电路拓扑结构
  - \*准谐振脉宽调制 (PWM)技术, 效率高, 稳定性好, 低碳节能, 满足不同电池充电曲线要求
  - \*具有过压, 过流, 过温, 短路, 反接, 充满关断或涓流, 防逆充电等多重保护
  - \*双色LED指示充电状态
  - \*ABS外壳, 美观坚固, 经久耐用
- \*Adopt simple, practical, stable and reliable flyback circuit topology
  - \*Quasi-resonant pulse width modulation(pwm), full automatic transition of CC,CV and Float/Cut off, meet the demands for different Curve
  - \*Protections:Over Current,Over Voltage, Over temperature, Short Circuit,Reverse Polarity, shut off or trickle and anti-reverse charger
  - \*Dual-clor LED charging states
  - \*Economy ABS case, Robust, elegant and Reliable

产品参数/product parameters					
输出电压 output voltage	4.2V/8.4V/ 12.6V	14.6V/16.8V/ 21V	25.2V/29.4V	42V	54.6V /58.8V
输出电流 output current	4A	3A	2A	1.5A	1A
效率 efficiency	85%				

输入input: AC 100-240V

产品特性 product features

- \*采用简单实用, 稳定可靠的反激式电路拓扑结构
  - \*准谐振脉宽调制 (PWM)技术, 效率高, 稳定性好, 低碳节能, 满足不同电池充电曲线要求
  - \*具有过压, 过流, 过温, 短路, 反接, 充满关断或涓流, 防逆充电等多重保护
  - \*使用静音风扇散热
  - \*双色LED指示充电状态
  - \*ABS外壳, 美观坚固, 经久耐用
- \*Adopt simple, practical, stable and reliable flyback circuit topology
  - \*Quasi-resonant pulse width modulation(pwm), full automatic transition of CC,CV and Float/Cut off, meet the demands for different Curve
  - \*Protections:Over Current,Over Voltage, Over temperature, Short Circuit,Reverse Polarity, shut off or trickle and anti-reverse charger
  - \* Use silent cooling fan
  - \*Dual-clor LED charging states
  - \*Economy ABS case, Robust, elegant and Reliable

产品参数/product parameters					
输出电压 output voltage	4.2v/8.4v/12.6v/14.6 V/16.8v	21v/25.v/29.4v/42v	54.6v/58.8v	67.2V/71.4V	84V
输出电流 output current	5A	3A	2A	1.5A	1A
效率 efficiency	85%				

SJT-5011系统充电器 (120W) /SJT-5011 Serious charger (120w) SJT-5002系统充电器 (180W) /SJT-5011 Serious charger (180w)



输入input: AC 100-240V

产品特性 product features

- \*采用简单实用, 稳定可靠的反激式电路拓扑结构
  - \*准谐振脉宽调制 (PWM)技术, 效率高, 稳定性好, 低碳节能, 满足不同电池充电曲线要求
  - \*具有过压, 过流, 过温, 短路, 反接, 充满关断或涓流, 防逆充电等多重保护
  - \*使用静音风扇散热
  - \*双色LED指示充电状态
  - \*ABS外壳, 美观坚固, 经久耐用
- \*Adopt simple,practical, stable and reliable flyback circuit topology
  - \*Quasi-resonant pulse width modulation(pwm), full automatic transition of CC,CV and Float/Cut off, meet the demands for different Curve
  - \*Protections:Over Current,Over Voltage, Over temperature, Short Circuit,Reverse Polarity, shut off or trickle and anti-reverse charger
  - \* Use silent cooling fan
  - \*Dual-clor LED charging states
  - \*Economy ABS case, Robust, elegant and Reliable

产品参数/product parameters					
输出电压 output voltage	4.2V 8.4V 12.6V	14.6V/16.8V	21V/25.2V/29.4V	42V	54.6V/58.8V
输出电流 output current	8A	7A	4A	3A	2A
效率 efficiency	85%				

输入input: AC 100-240V

产品特性 product features

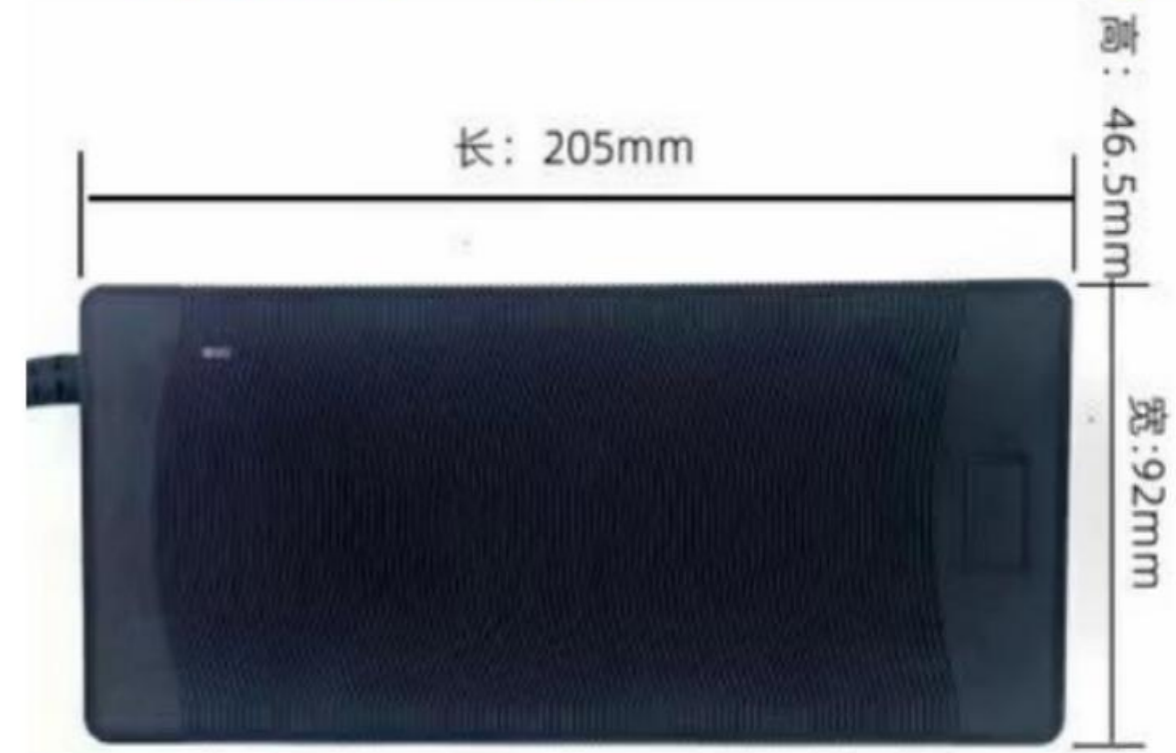
- \*采用简单实用, 稳定可靠的反激式电路拓扑结构
  - \*准谐振脉宽调制 (PWM)技术, 效率高, 稳定性好, 低碳节能, 满足不同电池充电曲线要求
  - \*具有过压, 过流, 过温, 短路, 反接, 充满关断或涓流, 防逆充电等多重保护
  - \*使用静音风扇散热
  - \*双色LED指示充电状态
  - \*ABS外壳, 美观坚固, 经久耐用
- \*Adopt simple,practical, stable and reliable flyback circuit topology
  - \*Quasi-resonant pulse width modulation(pwm), full automatic transition of CC,CV and Float/Cut off, meet the demands for different Curve
  - \*Protections:Over Current,Over Voltage, Over temperature, Short Circuit,Reverse Polarity, shut off or trickle and anti-reverse charger
  - \* Use silent cooling fan
  - \*Dual-clor LED charging states
  - \*Economy ABS case, Robust, elegant and Reliable

产品参数/product parameters					
输出电压 output voltage	4.2V/8.4V/ 12.6V/14.6V	16.8V	21V/25.2V/29.4V	42V	54.6V/58.8V/67.2V/ 71.4V/84V
输出电流 output current	10A	9A	5A	4A	2A-3A
效率 efficiency	85%				

**SJT-5015系统充电器 (240W) /SJT-5015 Serious charger (240w)**



**SJT-5012系统充电器 (300W) /SJT-5012 Serious charger (300w)**



**输入input: AC 100-240V**

- 产品特性 product features**
- \*采用简单实用, 稳定可靠的反激式电路拓扑结构
  - \*准谐振脉宽调制 (PWM)技术, 效率高, 稳定性好, 低碳节能, 满足不同电池充电曲线要求
  - \*具有过压, 过流, 过温, 短路, 反接, 充满关断或涓流, 防逆充电等多重保护
  - \*使用静音风扇散热
  - \*双色LED指示充电状态
  - \*ABS外壳, 美观坚固, 经久耐用
- \*Adopt simple,practical, stable and reliable flyback circuit topology
  - \*Quasi-resonant pulse width modulation(pwm), full automatic transition of CC,CV and Float/Cut off, meet the demands for different Curve
  - \*Protections:Over Current,Over Voltage, Over temperature, Short Circuit,Reverse Polarity, shut off or trickle and anti-reverse charger
  - \* Use silent cooling fan
  - \*Dual-clor LED charging states
  - \*Economy ABS case, Robust, elegant and Reliable

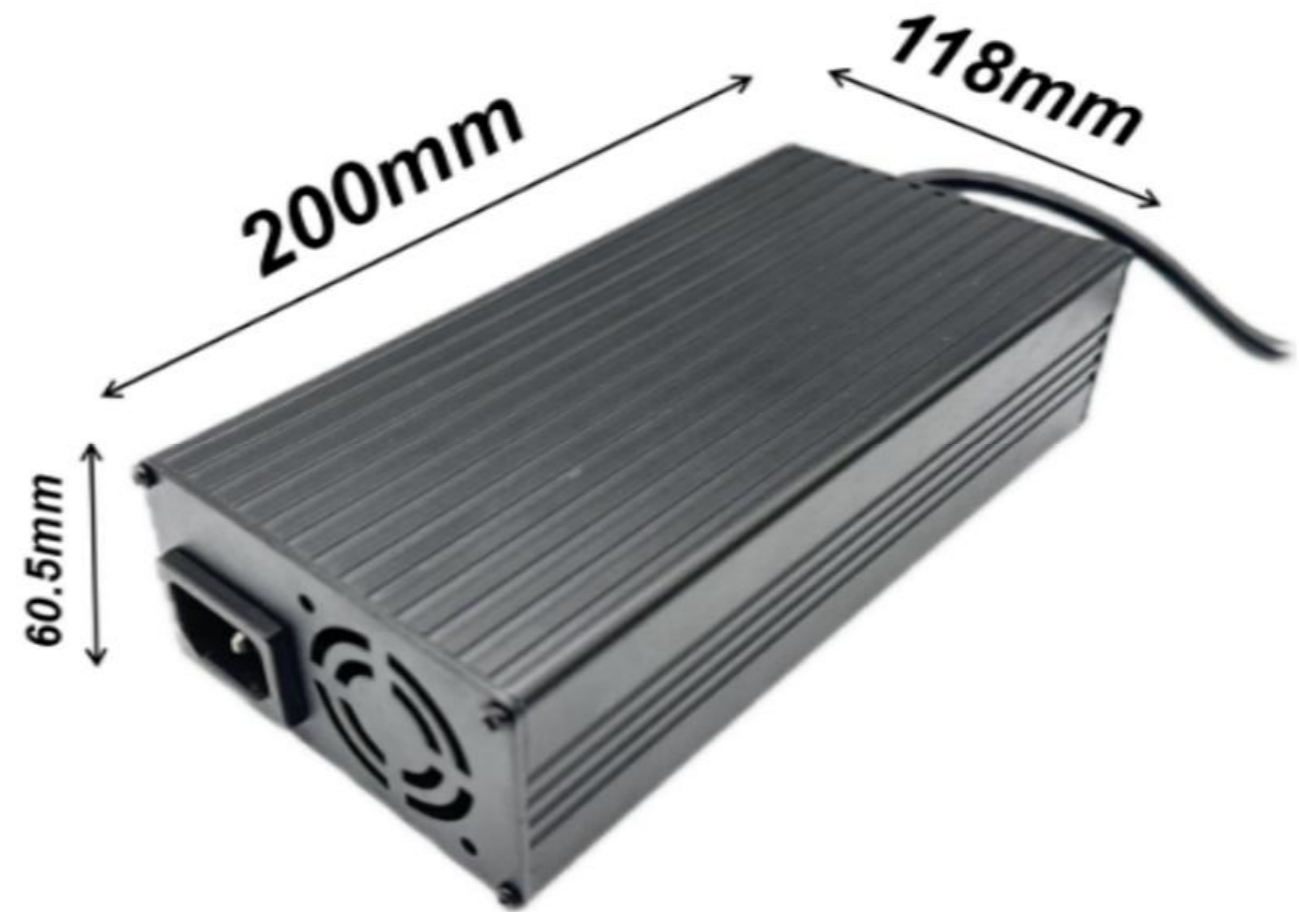
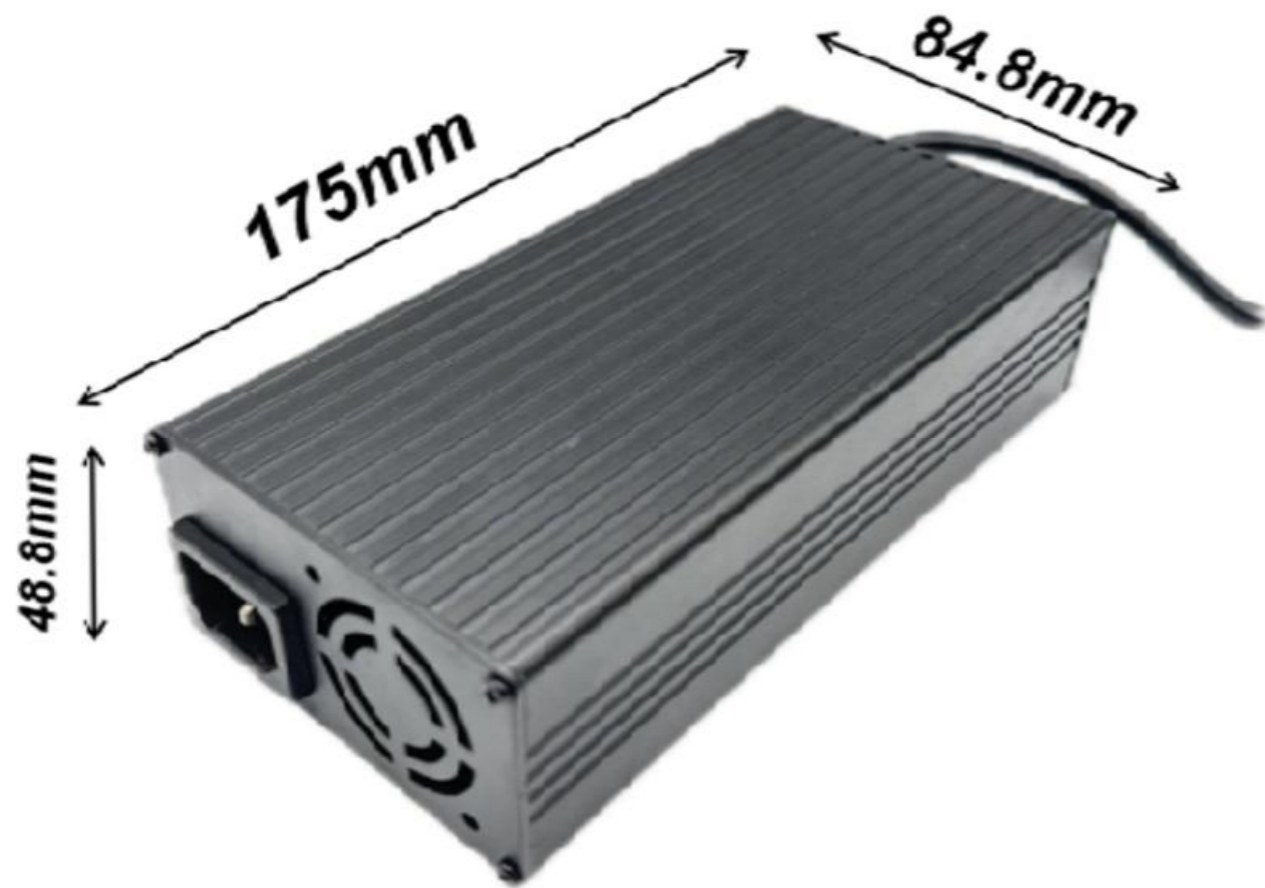
产品参数/product parameters					
输出电压 output voltage	12.6V/14.6V/ 16.8V	21V/21.9V/ 25.2V	29.4V/29.2V	42V/54.6V /58.8V	67.2V/84
输出电流 output current	15A	10A	8A	5A	3A-4A
效率 efficiency	85%				

**输入input: AC 100-120V/200-240V**

- 产品特性 product features**
- \*采用简单实用, 稳定可靠的反激式电路拓扑结构
  - \*准谐振脉宽调制 (PWM)技术, 效率高, 稳定性好, 低碳节能, 满足不同电池充电曲线要求
  - \*具有过压, 过流, 过温, 短路, 反接, 充满关断或涓流, 防逆充电等多重保护
  - \*使用静音风扇散热
  - \*双色LED指示充电状态
  - \*ABS外壳, 美观坚固, 经久耐用
- \*Adopt simple,practical, stable and reliable flyback circuit topology
  - \*Quasi-resonant pulse width modulation(pwm), full automatic transition of CC,CV and Float/Cut off, meet the demands for different Curve
  - \*Protections:Over Current,Over Voltage, Over temperature, Short Circuit,Reverse Polarity, shut off or trickle and anti-reverse charger
  - \* Use silent cooling fan
  - \*Dual-clor LED charging states
  - \*Economy ABS case, Robust, elegant and Reliable

产品参数/product parameters			
输出电压 output voltage	12.6V/14.6V/ 16.8V	25.2V/29.4V /29.2V	42V/54.6V/58.8V/67.2V/84V
输出电流 output current	20A	10A	4A-5A
效率 efficiency	85%		

# SJT-5012系统充电器 (300W) /SJT-5012 Serious charger (300w) SJT-5019系统充电器 (800W) /SJT-5012 Serious charger (800w)



输入input: AC 100-120V/200-240V

### 产品特性 product features

- \*采用简单实用, 稳定可靠的反激式电路拓扑结构
  - \*准谐振脉宽调制 (PWM)技术, 效率高, 稳定性好, 低碳节能, 满足不同电池充电曲线要求
  - \*具有过压, 过流, 过温, 短路, 反接, 充满关断或涓流, 防逆充电等多重保护
  - \*使用静音风扇散热
  - \*双色LED指示充电状态
  - \*铝合金外壳, 美观坚固, 经久耐用
- \*Adopt simple,practical, stable and reliable flyback circuit topology
  - \*Quasi-resonant pulse width modulation(pwm), full automatic transition of CC,CV and Float/Cut off, meet the demands for different Curve
  - \*Protections:Over Current,Over Voltage, Over temperature, Short Circuit,Reverse Polarity, shut off or trickle and anti-reverse charger
  - \* Use silent cooling fan
  - \*Dual-clor LED charging states
  - \*Economy Aluminum case, Robust, elegant and Reliable

产品参数/product parameters			
输出电压 output voltage	12.6V/14.6V/ 16.8V	25.2V/29.4V /29.2V	42V/54.6V/58.8V/67.2V/84V
输出电流 output current	20A	10A	4A-5A
效率 efficiency	85%		

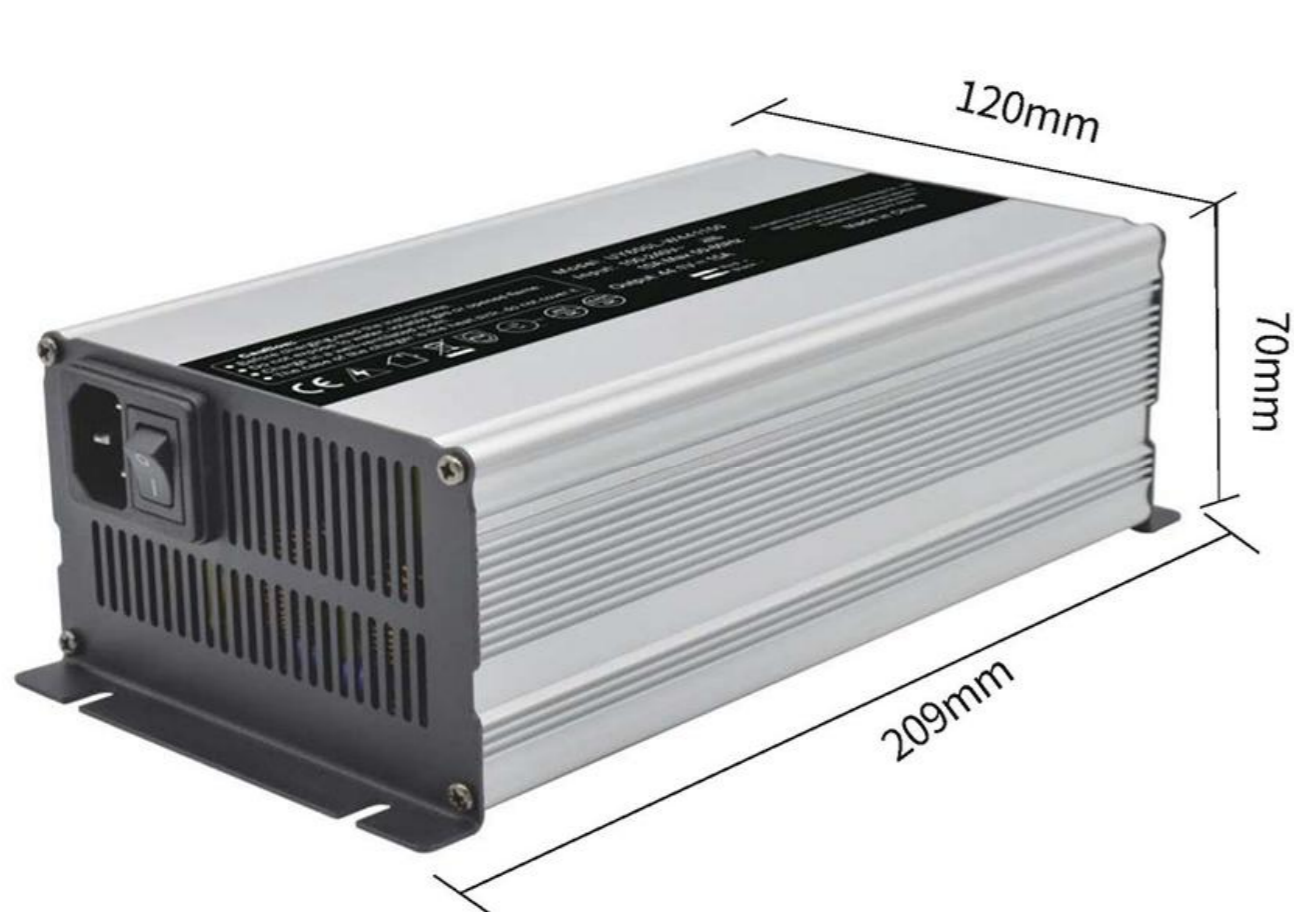
输入input: AC 100-120V/200-240V

### 产品特性 product features

- \*采用简单实用, 稳定可靠的反激式电路拓扑结构
  - \*准谐振脉宽调制 (PWM)技术, 效率高, 稳定性好, 低碳节能, 满足不同电池充电曲线要求
  - \*具有过压, 过流, 过温, 短路, 反接, 充满关断或涓流, 防逆充电等多重保护
  - \*使用静音风扇散热
  - \*双色LED指示充电状态
  - \*铝合金外壳, 美观坚固, 经久耐用
- \*Adopt simple,practical, stable and reliable flyback circuit topology
  - \*Quasi-resonant pulse width modulation(pwm), full automatic transition of CC,CV and Float/Cut off, meet the demands for different Curve
  - \*Protections:Over Current,Over Voltage, Over temperature, Short Circuit,Reverse Polarity, shut off or trickle and anti-reverse charger
  - \* Use silent cooling fan
  - \*Dual-clor LED charging states
  - \*Economy Aluminum case, Robust, elegant and Reliable

产品参数/product parameters				
输出电压 output voltage	12.6v/14.6v/ 16.8V	21V/25.2V/ 29.2V/29.4V	42v	54.6v/58.8v/67.2V/84V
输出电流 output current	40A	20A	10A-15A	10A
效率 efficiency	85%			

## UY600L系列充电器(600W)/UY900LSERIES CHARGER



输入范围:AC:100-240Vac(自动宽压)

通讯:CAN、RS485

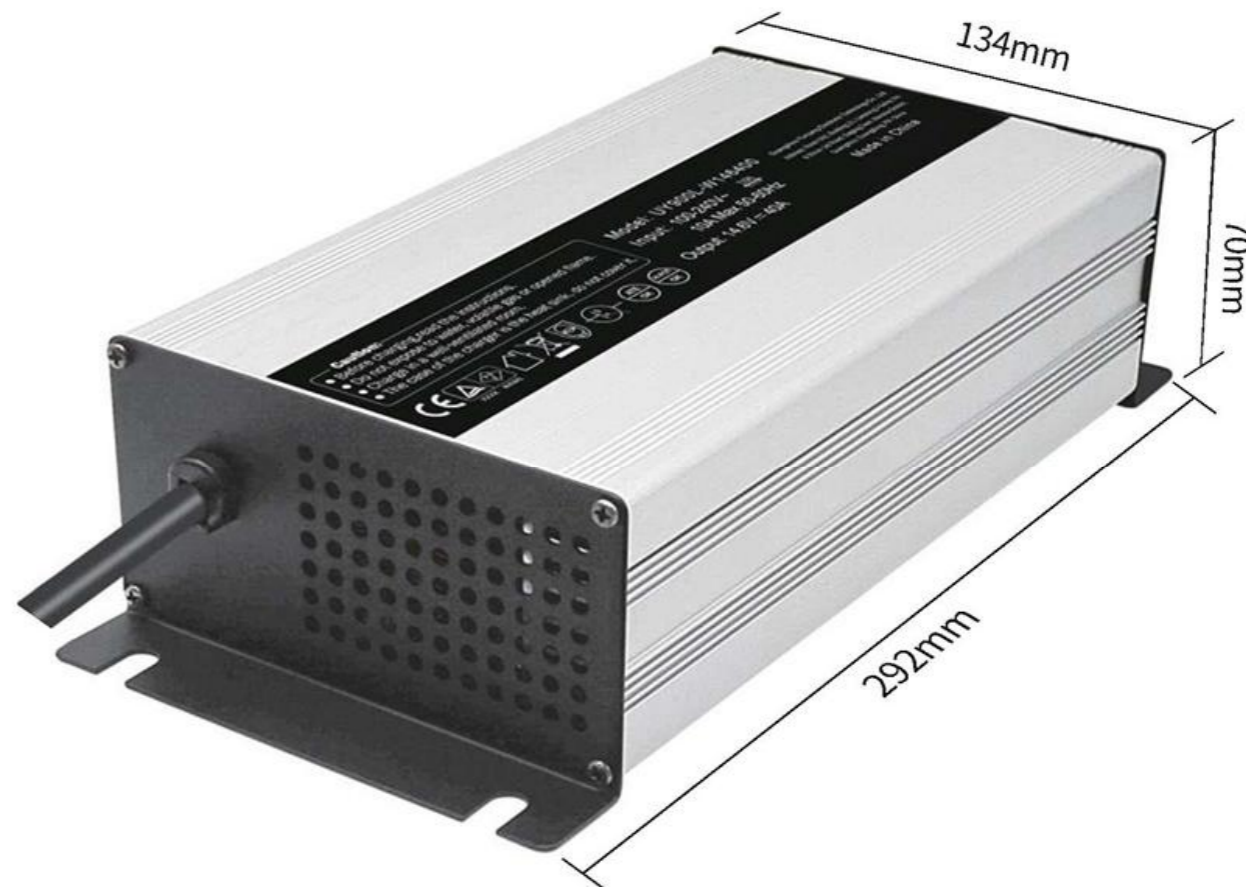
### 产品特性 PRODUCT FEATURES

- APFC+LLC谐振半桥拓扑
- MCU控制输出电压电流缓升,对电池无冲击,效率高,稳定性好,低碳节能,满足不同电池充电曲线要求
- 具有过压、过流、过温、短路、反接、充满关断或涓流、防逆充电等多重保护
- 铝合金外壳,美观坚固,经久耐用
- 温度+负载电流双重控制散热风扇转速
- APFC+LLC resonant half bridge topology
- MCU controls the output voltage and current to rise slowly, which has no impact on the battery, high efficiency, good stability, low carbon and energy saving, and meets the requirements of different battery charging curves
- Protections: Over Current, Over Voltage, Over temperature, Short Circuit, Reverse Polarity, shut off or trickle and anti-reverse charge
- Aluminum alloy shell, beautiful and durable
- Temperature/charging current dual control speed of cooling fan

产品参数/Product parameters

输出电压 Output voltage	12V 13V-17V	24V 25-30V	36V 37-45V	48V 50-60V	60V 63-75V	72V 78-89V	84V 90-105V
输出电流 Output current	40A	30A	20A	15A	12A	10A	8A
效率 Efficiency	92%(full load)		认证 Certification	CE, FCC, ROHS, PSE			

## UY900L系列充电器(900W)/UY900LSERIES CHARGER



输入范围:AC:100-240Vac(自动宽压)

通讯:CAN、RS485

### 产品特性 PRODUCT FEATURES

- APFC+LLC谐振半桥拓扑
- MCU控制输出电压电流缓升,对电池无冲击,效率高,稳定性好,低碳节能,满足不同电池充电曲线要求
- 具有过压、过流、过温、短路、反接、充满关断或涓流、防逆充电等多重保护
- 铝合金外壳,美观坚固,经久耐用
- 温度+负载电流双重控制散热风扇转速
- APFC+LLC resonant half bridge topology
- MCU controls the output voltage and current to rise slowly, which has no impact on the battery, high efficiency, good stability, low carbon and energy saving, and meets the requirements of different battery charging curves
- Protections: Over Current, Over Voltage, Over temperature, Short Circuit, Reverse Polarity, shut off or trickle and anti-reverse charge
- Aluminum alloy shell, beautiful and durable
- Temperature/charging current dual control speed of cooling fan

产品参数/Product parameters

输出电压 Output voltage	12V 13V-17V	24V 25-30V	36V 37-45V	48V 50-60V	60V 63-75V	72V 78-89V	84V 90-105V
输出电流 Output current	40A	30A	20A	15A	12A	10A	8A
效率 Efficiency	92%(full load)		认证 Certification	CE, FCC, UL, ROHS, PSE			

## UY900C系列充电器(900W) /UY900 SERIES CHARGER



输入范围:AC: 100-120Vac/200-240Vac

通讯:CAN、RS485

### 产品特性 PRODUCT FEATURES

- 采用电流型半桥式的电路拓扑结构, 稳定高效节能
- MCU智能控制和脉宽调制(PWM)技术, 效率高, 稳定性好, 低碳节能, 满足不同电池充电曲线要求
- 具有过压、过流、过温、短路、反接、充满关断或涓流、防逆充电等多重保护
- 铝合金外壳, 美观坚固, 经久耐用, 智能温控风扇设计, 节能减排
- Adopt current-mode half-bridge circuit topology, stable, high-efficiency and energy-saving
- MCU intelligent control and pulse width modulation (PWM) technology, high efficiency, good stability, low carbon and energy saving, meet the requirements of different battery charging curves
- Protections: Over Current, Over Voltage, Over temperature, Short Circuit, Reverse Polarity, shut off or trickle and anti-reverse charge
- Aluminum alloy shell, beautiful and durable, intelligent temperature control fan design, energy saving and emission reduction

产品参数/Product parameters

输出电压 Output voltage	12V	24V	36V	48V	60V	72V	84V
输出电流 Output current	50A	30A	20A	18A	12A	10A	8A
效率 Efficiency	≥85%(full load)		认证 Certification	CE			

## UY900系列充电器(900W) /UY900 SERIES CHARGER



输入范围:AC: 100-120Vac/200-240Vac

通讯:CAN、RS485

### 产品特性 PRODUCT FEATURES

- 采用电流型半桥式的电路拓扑结构, 稳定高效节能
- MCU智能控制和脉宽调制(PWM)技术, 效率高, 稳定性好, 低碳节能, 满足不同电池充电曲线要求
- 具有过压、过流、过温、短路、反接、充满关断或涓流、防逆充电等多重保护
- 铝合金外壳, 美观坚固, 经久耐用, 智能温控风扇设计, 节能减排
- Adopt current-mode half-bridge circuit topology, stable, high-efficiency and energy-saving
- MCU intelligent control and pulse width modulation (PWM) technology, high efficiency, good stability, low carbon and energy saving, meet the requirements of different battery charging curves
- Protections: Over Current, Over Voltage, Over temperature, Short Circuit, Reverse Polarity, shut off or trickle and anti-reverse charge
- Aluminum alloy shell, beautiful and durable, intelligent temperature control fan design, energy saving and emission reduction

产品参数/Product parameters

输出电压 Output voltage	12V	13V-17V	24V	25-30V	36V	37-45V	48V	50-60V	60V	63-75V	72V	78-89V	84V	90-105V
输出电流 Output current	40A		30A		20A		15A		12A		10A		8A	
效率 Efficiency	88%(full load)				认证 Certification	CE								

## UY1200系列充电器(1200W) /UY1200 SERIES CHARGER



输入范围:AC: 100-120Vac/200-240Vac

通讯:CAN、RS485

### 产品特性 PRODUCT FEATURES

- 采用电流型半桥式的电路拓扑结构, 稳定高效节能
- MCU控制和脉宽调制(PWM)技术, 效率高, 稳定性好, 低碳节能, 满足不同电池充电曲线要求
- 具有过压、过流、过温、短路、反接、充满关断或涓流、防逆充电等多重保护
- 电压电流直观显示
- 铝合金外壳, 提手设计、易携带, 智能温控风扇设计, 节能减排
- The current type half bridge circuit topology is adopted, which is stable, efficient and energy-saving
- MCU control and pulse width modulation (PWM) technology, high efficiency, good stability, low carbon and energy saving, meet the requirements of different battery charging curves
- Protections: Over Current, Over Voltage, Over temperature, Short Circuit, Reverse Polarity, shut off or trickle and anti-reverse charge
- Visual display of voltage and current
- Aluminum alloy shell, beautiful and durable, intelligent temperature control fan design, energy saving and emission reduction

产品参数 Product parameters

输出电压 Output voltage	12V 13V-17V	24V 25-30V	36V 37-45V	48V 50-60V	60V 63-75V	72V 78-89V	84V 90-105V
输出电流 Output current	50A	35A	25A	20A	15A	12A	11A
效率 Efficiency	89%(full load)		认证 Certification	CE			

## UY1500系列充电器(1500W) /UY1500 SERIES CHARGER



输入范围:AC: 100-120Vac/200-240Vac

通讯:CAN、RS485

### 产品特性 PRODUCT FEATURES

- 采用电流型全桥式的电路拓扑结构, 稳定高效节能
- MCU控制和脉宽调制(PWM)技术, 效率高, 稳定性好, 低碳节能, 满足不同电池充电曲线要求
- 具有过压、过流、过温、短路、反接、充满关断或涓流、防逆充电等多重保护
- 电压电流直观显示(LED或LCD显示屏可选择)
- 铝合金外壳, 提手设计、易携带, 智能温控风扇设计, 节能减排
- The current type half bridge circuit topology is adopted, which is stable, efficient and energy-saving
- MCU control and pulse width modulation (PWM) technology, high efficiency, good stability, low carbon and energy saving, meet the requirements of different battery charging curves
- Protections: Over Current, Over Voltage, Over temperature, Short Circuit, Reverse Polarity, shut off or trickle and anti-reverse charge
- Visual display of voltage and current (LED or LCD display is optional)
- Aluminum alloy shell, beautiful and durable, intelligent temperature control fan design, energy saving and emission reduction

产品参数 Product parameters

输出电压 Output voltage	12V 13V-17V	24V 25-30V	36V 37-45V	48V 50-60V	60V 63-75V	72V 78-89V	84V 90-105V
输出电流 Output current	80A	50A	30A	25A	20A	16A	14A
效率 Efficiency	89%(full load)		认证 Certification	CE, FCC, ROHS			

## UY2000系列充电器(2000W) /UY2000 SERIES CHARGER



输入范围:AC: 100-120Vac/200-240Vac

通讯:CAN、RS485

### 产品特性PRODUCT FEATURES

- 采用电流型全桥式的电路拓扑结构, 稳定高效节能
- MCU控制和脉宽调制(PWM)技术, 效率高, 稳定性好, 低碳节能, 满足不同电池充电曲线要求
- 具有过压、过流、过温、短路、反接、充满关断或涓流、防逆充电等多重保护
- 电压电流直观显示(LED或LCD显示屏可选择)
- 铝合金外壳, 提手设计、易携带, 智能温控风扇设计, 节能减排
- Current type full bridge circuit topology is adopted, which is stable, efficient and energy-saving
- MCU control and pulse width modulation (PWM) technology, high efficiency, good stability, low carbon and energy saving, meet the requirements of different battery charging curves
- Protections: Over Current, Over Voltage, Over temperature, Short Circuit, Reverse Polarity, shut off or trickle and anti-reverse charge
- Visual display of voltage and current (LED or LCD display is optional)
- Aluminum alloy shell, beautiful and durable, intelligent temperature control fan design, energy saving and emission reduction

产品参数/Product parameters

输出电压 Output voltage	12V 13V-17V	24V 25-30V	36V 37-45V	48V 50-60V	60V 63-75V	72V 78-89V	84V 90-105V
输出电流 Output current	90A	60A	40A	30A	25A	20A	18A
效率 Efficiency	89%(full load)		认证 Certification	CE			

## UY2500系列充电器(2500W) /UY2500 SERIES CHARGER



输入范围:AC: 100-120Vac/200-240Vac

通讯:CAN、RS485

### 产品特性PRODUCT FEATURES

- 采用电流型全桥式的电路拓扑结构, 稳定高效节能
- MCU控制和脉宽调制(PWM)技术, 效率高, 稳定性好, 低碳节能, 满足不同电池充电曲线要求
- 具有过压、过流、过温、短路、反接、充满关断或涓流、防逆充电等多重保护
- 电压电流直观显示
- 铝合金外壳, 提手设计、易携带, 智能温控风扇设计, 节能减排
- Current type full bridge circuit topology is adopted, which is stable, efficient and energy-saving
- MCU control and pulse width modulation (PWM) technology, high efficiency, good stability, low carbon and energy saving, meet the requirements of different battery charging curves
- Protections: Over Current, Over Voltage, Over temperature, Short Circuit, Reverse Polarity, shut off or trickle and anti-reverse charge
- Visual display of voltage and current
- Aluminum alloy shell, beautiful and durable, intelligent temperature control fan design, energy saving and emission reduction

产品参数/Product parameters

输出电压 Output voltage	12V 13V-17V	24V 25-30V	36V 37-45V	48V 50-60V	60V 63-75V	72V 78-89V	84V 90-105V
输出电流 Output current	100A	65A	45A	38A	30A	23A	20A
效率 Efficiency	89%(full load)		认证 Certification	CE			

## UY2000L系列充电器(2000W)/UY2000L SERIES CHARGER



输入范围:AC:100-240Vac(自动宽压)

通讯:CAN、RS485

### 产品特性PRODUCT FEATURES

- 充电器有多个双色指示灯(红、绿),三个指示灯分别对应一路输出(LFP)、(NCM)、(L-A)模式。可充不同类型的电池,短按按键(SEL)进行模式切换
- MCU控制输出电压电流缓升,对电池无冲击,效率高,稳定性好,低碳节能,满足不同电池充电曲线要求
- 具有过压、过流、过温、短路、反接、充满关断或涓流、防逆充电等多重保护
- 温度+负载电流双重控制散热风扇转速
- 铝合金外壳,提手设计、易携带,智能温控风扇设计,节能减排

- The charger has several dual-colour indicator lights (red and green), and the three indicator lights correspond to one way output LFP、NCM and L-A modes respectively. Different types of batteries can be charged, short press the button (SEL) to switch modes.
- MCU controls the output voltage and current to rise slowly, which has no impact on the battery, high efficiency, good stability, low carbon and energy saving, and meets the requirements of different battery charging curves
- Protections: Over Current, Over Voltage, Over temperature, Short Circuit, Reverse Polarity, shut off or trickle and anti-reverse charge
- Temperature/charging current dual control speed of cooling fan
- Optionally add single-chip function communication to meet the needs of functional differentiation and customization

产品参数/Product parameters

输出电压 Output voltage	24V 25-30V	36V 40-45V	48V 50-60V	60V 63-75V	72V 78-89V
输出电流 Output current	60A	45A	30A	25A	22A
效率 Efficiency	92%(full load)		认证 Certification	CE	

## UY240LP系列充电器(240W)/UY240LP SERIES CHARGER



输入范围:AC:100-240Vac(自动宽压)

防水等级:IP65

### 产品特性PRODUCT FEATURES

- 采用谐振LLC半桥式电路拓扑结构
- 脉宽调制(PFM)技术,效率高,稳定性好,低碳节能,满足不同电池充电曲线要求
- 具有过压、过流、过温、短路、反接、充满关断或涓流、防逆充电等多重保护
- 双色LED充电状态显示
- 铝合金外壳,美观坚固,经久耐用

- Using a resonant LLC half-bridge circuit topology
- Pulse width modulation (PFM) technology, high efficiency, good stability, low carbon and energy saving, meet the requirements of different battery charging curves
- Protections: Over Current, Over Voltage, Over temperature, Short Circuit, Reverse Polarity, shut off or trickle and anti-reverse charge
- Dual-color LED charging status(Optional:digital voltage display)
- Aluminum alloy shell, beautiful and durable

产品参数/Product parameters

输出电压 Output voltage	12V 13V-17V	24V 25-30V	36V 37-45V	48V 50-60V	60V 63-75V	72V 78-89V
输出电流 Output current	10A	8A	5A	4A	3A	2A
效率 Efficiency	89%(full load)		认证 Certification	CE、FCC、ROHS		

## UY300LP系列充电器(300W)/UY300LP SERIES CHARGER



输入范围:AC:100-240Vac(自动宽压)

防水等级:IP65

### 产品特性PRODUCT FEATURES

- 采用谐振LLC半桥式电路拓扑结构
- 脉宽调制(PFM)技术,效率高,稳定性好,低碳节能,满足不同电池充电曲线要求
- 具有过压、过流、过温、短路、反接、充满关断或涓流、防逆充电等多重保护
- 双色LED充电状态显示
- 铝合金外壳,美观坚固,经久耐用
- Using a resonant LLC half-bridge circuit topology
- Pulse width modulation (PFM) technology, high efficiency, good stability, low carbon and energy saving, meet the requirements of different battery charging curves
- Protections: Over Current, Over Voltage, Over temperature, Short Circuit, Reverse Polarity, shut off or trickle and anti-reverse charge
- Two color LED charging status display
- Aluminum alloy shell, beautiful and durable

产品参数/Product parameters

输出电压 Output voltage	12V 13V-17V	24V 25-30V	36V 37-45V	48V 50-60V	60V 65-75V	72V 78-89V
输出电流 Output current	17A	10A	7A	5A	4A	3A
效率 Efficiency	92%(full load)		认证 Certification			
			CE、CB、FCC、C-TUV-US			

## UY360LP系列充电器(360W)/UY360LP SERIES CHARGER



输入范围:AC:100-240Vac(自动宽压)

防水等级:IP65

### 产品特性PRODUCT FEATURES

- 采用谐振LLC半桥式电路拓扑结构
- 脉宽调制(PFM)技术,效率高,稳定性好,低碳节能,满足不同电池充电曲线要求
- 具有过压、过流、过温、短路、反接、充满关断或涓流、防逆充电等多重保护
- 双色LED充电状态显示
- 铝合金外壳,美观坚固,经久耐用
- Using a resonant LLC half-bridge circuit topology
- Pulse width modulation (PFM) technology, high efficiency, good stability, low carbon and energy saving, meet the requirements of different battery charging curves
- Protections: Over Current, Over Voltage, Over temperature, Short Circuit, Reverse Polarity, shut off or trickle and anti-reverse charge
- Two color LED charging status display
- Aluminum alloy shell, beautiful and durable

产品参数/Product parameters

输出电压 Output voltage	12V 13V-17V	24V 25-30V	36V 37-45V	48V 50-60V	60V 63-75V	72V 78-89V
输出电流 Output current	20A	12A	8A	6A	5A	4A
效率 Efficiency	93%(full load)		认证 Certification			
			CE、CB、FCC、CQC、C-TUV-US、KC(1220单一型号)			

## UY600S系列充电器(600W)/UY600S SERIES CHARGER



输入范围:AC:100-240Vac(自动宽压)

防水等级:IP65

通讯:CAN、RS485

### 产品特性PRODUCT FEATURES

- 充电器有多个双色指示灯(红、绿),三个指示灯分别对应一路输出(LFP)、(NCM)、(L-A)模式。可充不同类型的电池,短按按键(SEL)进行模式切换
- MCU控制输出电压电流缓升,对电池无冲击,效率高,稳定性好,低碳节能,满足不同电池充电曲线要求
- 具有过压、过流、过温、短路、反接、充满关断或涓流、防逆充电等多重保护
- 温度+负载电流双重控制散热风扇转速
- 铝合金外壳,提手设计、易携带,智能温控风扇设计,节能减排
- The charger has several dual-colour indicator lights (red and green), and the three indicator lights correspond to one way output LFP、NCM and、L-A) modes respectively. Different types of batteries can be charged, short press the button (SEL) to switch modes.
- MCU controls the output voltage and current to rise slowly, which has no impact on the battery, high efficiency, good stability, low carbon and energy saving, and meets the requirements of different battery charging curves
- Protections: Over Current, Over Voltage, Over temperature, Short Circuit, Reverse Polarity, shut off or trickle and anti-reverse charge
- Temperature/charging current dual control speed of cooling fan
- Optionally add single-chip function communication to meet the needs of functional differentiation and customization

产品参数/Product parameters

输出参数	12V	13V-17V	24V	25-30V	36V	37-45V	48V	50-60V	60V	63-75V	72V	78-89V
输出电压 Output voltage	12V	13V-17V	24V	25-30V	36V	37-45V	48V	50-60V	60V	63-75V	72V	78-89V
输出电流 Output current	--	--	20A	--	12A	--	10A	--	8A	--	6A	--
效率 Efficiency	92%(full load)											
认证 Certification	CE、ETL											

## UY900S系列充电器(900W)/UY900S SERIES CHARGER



输入范围:AC:100-240Vac(自动宽压)

防水等级:IP65

通讯:CAN、RS485

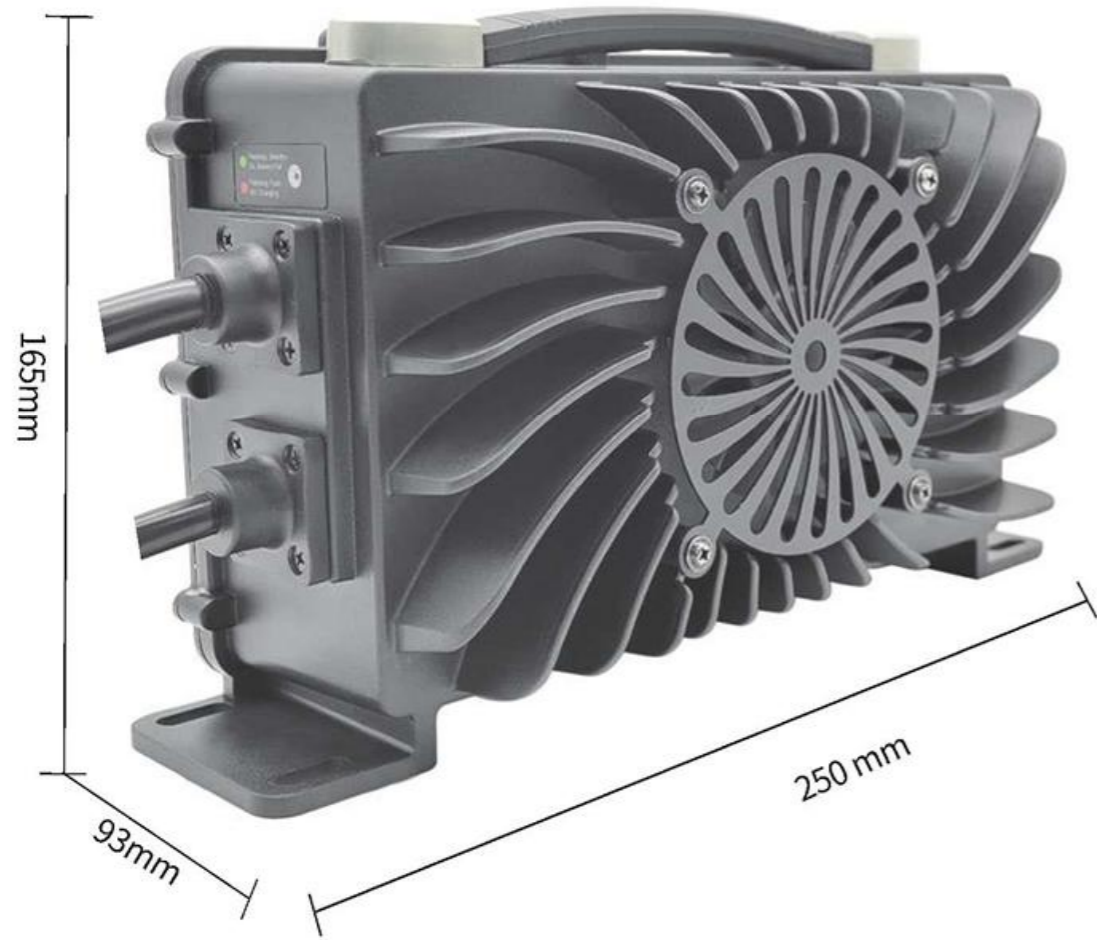
### 产品特性PRODUCT FEATURES

- 充电器有多个双色指示灯(红、绿),三个指示灯分别对应一路输出(LFP)、(NCM)、(L-A)模式。可充不同类型的电池,短按按键(SEL)进行模式切换
- MCU控制输出电压电流缓升,对电池无冲击,效率高,稳定性好,低碳节能,满足不同电池充电曲线要求
- 具有过压、过流、过温、短路、反接、充满关断或涓流、防逆充电等多重保护
- 温度+负载电流双重控制散热风扇转速
- 铝合金外壳,提手设计、易携带,智能温控风扇设计,节能减排
- The charger has several dual-colour indicator lights (red and green), and the three indicator lights correspond to one way output LFP、NCM and、L-A) modes respectively. Different types of batteries can be charged, short press the button (SEL) to switch modes.
- MCU controls the output voltage and current to rise slowly, which has no impact on the battery, high efficiency, good stability, low carbon and energy saving, and meets the requirements of different battery charging curves
- Protections: Over Current, Over Voltage, Over temperature, Short Circuit, Reverse Polarity, shut off or trickle and anti-reverse charge
- Temperature/charging current dual control speed of cooling fan
- Optionally add single-chip function communication to meet the needs of functional differentiation and customization

产品参数/Product parameters

输出参数	12V	13V-17V	24V	25-30V	36V	37-45V	48V	50-60V	60V	63-75V	72V	78-89V
输出电压 Output voltage	12V	13V-17V	24V	25-30V	36V	37-45V	48V	50-60V	60V	63-75V	72V	78-89V
输出电流 Output current	30A	30A	30A	30A	20A	20A	15A	15A	12A	12A	10A	10A
效率 Efficiency	92%(full load)											
认证 Certification	CE、ETL											

## UY1200S系列充电器(1200W)/UY1200S SERIES CHARGER



输入范围:AC:100-240Vac(自动宽压)

防水等级:IP65

通讯:CAN、RS485

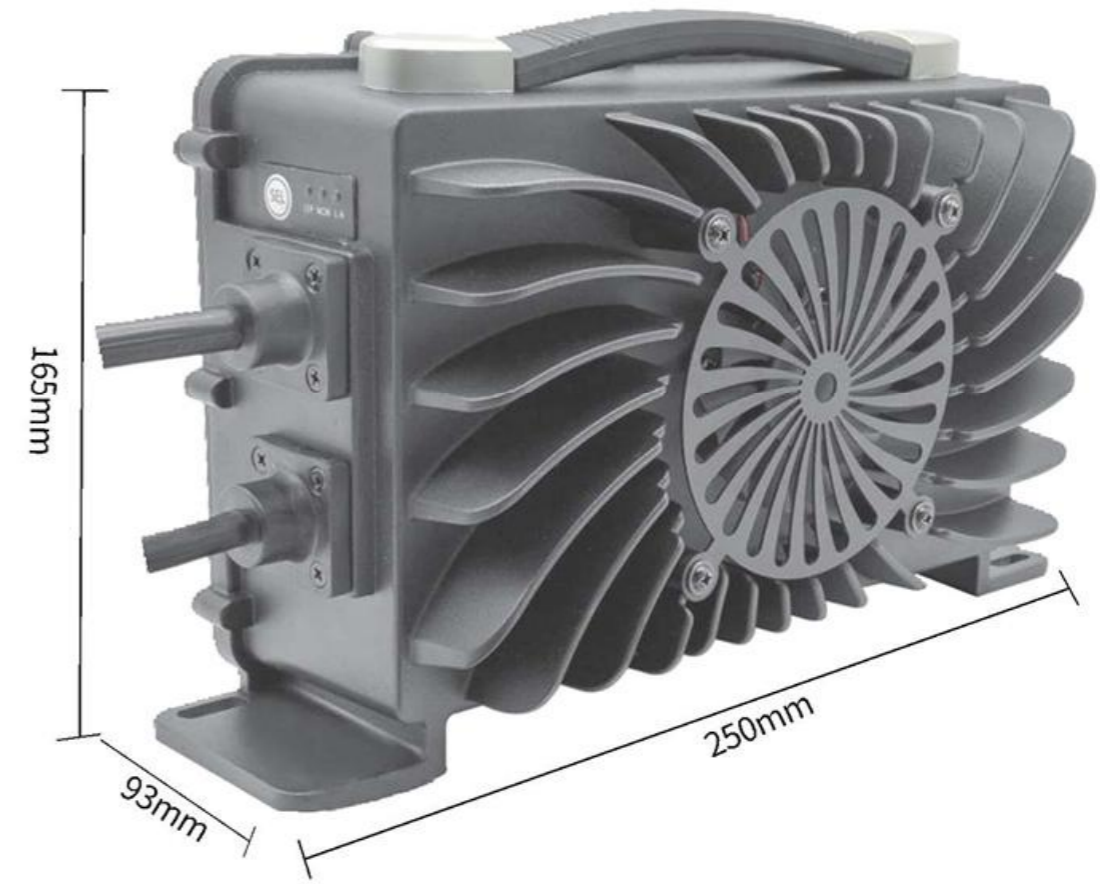
### 产品特性PRODUCT FEATURES

- 适用铅酸电池(加水式、胶体式、及吸附玻璃纤维式)或锂电池(锂铁、锂锰、锂三元)充电
- MCU控制输出电压电流缓升,对电池无冲击,效率高,稳定性好,低碳节能,满足不同电池充电曲线要求
- 具有过压、过流、过温、短路、反接、充满关断或涓流、防逆充电等多重保护
- 温度+负载电流双重控制散热风扇转速
- 铝合金外壳,提手设计、易携带,智能温控风扇设计,节能减排
- Suitable for lead-acid batteries (water-added, colloidal, and adsorbed glass fiber) or lithium batteries (lithium iron, lithium manganese, lithium ternary) charging
- MCU controls the output voltage and current to rise slowly, which has no impact on the battery, high efficiency, good stability, low carbon and energy saving, and meets the requirements of different battery charging curves
- Protections: Over Current, Over Voltage, Over temperature, Short Circuit, Reverse Polarity, shut off or trickle and anti-reverse charge
- Temperature/charging current dual control speed of cooling fan
- Optionally add single-chip function communication to meet the needs of functional differentiation and customization

产品参数/Product parameters

输出电压 Output voltage	12V 13V-17V	24V 25-30V	36V 37-45V	48V 50-60V	60V 63-75V	72V 78-89V
输出电流 Output current	55A	40A	27A	20A	16A	13A
效率 Efficiency	90%(full load)		认证 Certification	CE		

## UY1500S系列充电器(1500W)/UY1500S SERIES CHARGER



输入范围:AC:100-240Vac(自动宽压)

防水等级:IP65

通讯:CAN、RS485

### 产品特性PRODUCT FEATURES

- 充电器有多个双色指示灯(红、绿),三个指示灯分别对应一路输出(LFP)、(NCM)、(L-A)模式。可充不同的类型电池,短按按键(SEL)进行模式切换
- MCU控制输出电压电流缓升,对电池无冲击,效率高,稳定性好,低碳节能,满足不同电池充电曲线要求
- 具有过压、过流、过温、短路、反接、充满关断或涓流、防逆充电等多重保护
- 温度+负载电流双重控制散热风扇转速
- 铝合金外壳,提手设计、易携带,智能温控风扇设计,节能减排
- The charger has several dual-colour indicator lights (red and green), and the three indicator lights correspond to one way output LFP、NCM and L-A) modes respectively. Different types of batteries can be charged, short press the button (SEL) to switch modes.
- MCU controls the output voltage and current to rise slowly, which has no impact on the battery, high efficiency, good stability, low carbon and energy saving, and meets the requirements of different battery charging curves
- Protections: Over Current, Over Voltage, Over temperature, Short Circuit, Reverse Polarity, shut off or trickle and anti-reverse charge
- Temperature/charging current dual control speed of cooling fan
- Optionally add single-chip function communication to meet the needs of functional differentiation and customization

产品参数/Product parameters

输出电压 Output voltage	12V 13V-17V	24V 25-30V	36V 37-45V	48V 50-60V	60V 63-75V	72V 78-89V
输出电流 Output current	55A	40A	30A	25A	20A	16A
效率 Efficiency	90%(full load)		认证 Certification	CE		

## UYMC-2P 多通道充电器/MULTICHANNEL CHARGER



输入范围:AC:100-240Vac(自动宽压)

防水等级:IP65

### 产品特性 PRODUCT FEATURES

- 充电器有多个双色指示灯(红、绿),三个指示灯分别对应一路输出(LFP)、(NCM)、(L-A)模式。可充不同类型的电池,短按按键(SEL)进行模式切换
- 脉宽调制(PFM)技术,效率高,稳定性好,低碳能,满足不同电池充电曲线要求
- 具有过压、过流、过温、短路、反接、充满关断或涓流、防逆充电等多重保护
- 双通道充电器,满足不同充电器类型的需求
- The charger has several dual-colour indicator lights (red and green), and the three indicator lights correspond to one way output LFP, NCM and L-A modes respectively. Different types of batteries can be charged, short press the button (SEL) to switch modes.
- Pulse width modulation (PFM) technology, high efficiency, good stability, low carbon energy, to meet the requirements of different battery charging curves
- Protections: Over Current, Over Voltage, Over temperature, Short Circuit, Reverse Polarity, shut off or trickle and anti-reverse charge
- Dual channel charger to meet the needs of different charger types

产品参数/Product parameters

充电模式电压 Charging mode voltage	LFP	14.6V*2	充电电流 Charging current	LFP	5A*2
	NCM	12.6/16.8V*2		NCM	5A*2
	L-A	14.7V*2		L-A	5A*2
效率 Efficiency	≥87%(full load)		认证 Certification	CE	

## UYMC-3P 多通道充电器/MULTICHANNEL CHARGER



输入范围:AC:100-240Vac(自动宽压)

防水等级:IP65

### 产品特性 PRODUCT FEATURES

- 充电器有多个双色指示灯(红、绿),三个指示灯分别对应一路输出(LFP)、(NCM)、(L-A)模式。可充不同类型的电池,短按按键(SEL)进行模式切换
- MCU控制输出电压电流缓升,对电池无冲击,效率高,稳定性好,低碳节能,满足不同电池充电曲线要求
- 具有过压、过流、过温、短路、反接、充满关断或涓流、防逆充电等多重保护
- 三通道充电器,满足不同充电器类型的需求
- The charger has several dual-colour indicator lights (red and green), and the three indicator lights correspond to one way output LFP, NCM and L-A modes respectively. Different types of batteries can be charged, short press the button (SEL) to switch modes.
- MCU controls the output voltage and current to rise slowly, which has no impact on the battery, high efficiency, good stability, low carbon and energy saving, and meets the requirements of different battery charging curves
- Protections: Over Current, Over Voltage, Over temperature, Short Circuit, Reverse Polarity, shut off or trickle and anti-reverse charge
- Three-channel charger to meet the needs of different charger types

产品参数/Product parameters

充电模式电压 Charging mode voltage	LFP	14.6V*3	充电电流 Charging current	LFP	5A*3
	NCM	12.6/16.8V*3		NCM	5A*3
	L-A	14.7V*3		L-A	5A*3
效率 Efficiency	≥87%(full load)		认证 Certification	CE	

## Battery Charger and Maintainer 12V/24V 0-35A



输入input: AC 100-240V

### 产品特性 product features

- \*汽车电池充电器为所有12V/24V锂、LiFePO4和铅酸 (AGM/Gel/SLA..) 电池充电, 最大电流为35Amp!
- \*一键启动可确保无忧操作, 而紧凑的设计则可无缝安装在车库、船只或旅行套件中
- \*非常适合为各种电池和大型车辆 (如卡车、船只、摩托车、高尔夫球车、拖拉机和房车) 快速充电
- \*led显示屏,ABS外壳, 美观坚固, 经久耐用

- \*car battery charger charges all 12V/24V Lithium, LiFePO4, and Lead Acid (AGM/Gel/SLA..) batteries with 35Amp max current!
- \*The one-touch start ensures hassle-free operation, while the compact design fits seamlessly in garages, boats, or travel kits.
- \*Perfect for fast charging various batteries and large vehicles such as trucks, boats, motorcycles, golf carts, tractors, and RVs
- \*LED display,ABS shell, beautiful and sturdy, durable and long-lasting
- \*

### 产品参数/product parameters

输出电压 output voltage	12V	24V
输出电流 output current	0-35A	0-18A
效率 efficiency	85%	

## Battery Charger and Maintainer 12V/24V 0-15A



输入input: AC 100-240V

### 产品特性 product features

- \*汽车电池充电器为所有12V/24V锂、LiFePO4和铅酸 (AGM/Gel/SLA..) 电池充电, 最大电流为15Amp!
- \*一键启动可确保无忧操作, 而紧凑的设计则可无缝安装在车库、船只或旅行套件中
- \*非常适合为各种电池和大型车辆 (如卡车、船只、摩托车、高尔夫球车、拖拉机和房车) 快速充电
- \*led显示屏,ABS外壳, 美观坚固, 经久耐用
- \*9段式充电, 充电效率更高

- \*car battery charger charges all 12V/24V Lithium, LiFePO4, and Lead Acid (AGM/Gel/SLA..) batteries with 15Amp max current!
- \*The one-touch start ensures hassle-free operation, while the compact design fits seamlessly in garages, boats, or travel kits.
- \*Perfect for fast charging various batteries and large vehicles such as trucks, boats, motorcycles, golf carts, tractors, and RVs
- \*LED display,ABS shell, beautiful and sturdy, durable and long-lasting
- \*9-stage charging process, much safer and more efficient

### 产品参数/product parameters

输出电压 output voltage	12V	24V
输出电流 output current	0-15A	0-10
效率 efficiency	85%	

## COMMON INPUT CONNECTORS

### 常用输入接头



澳标/AU PLUG



欧标/EU PLUG



国标/CHINA PLUG



美标/US PLUG



英标/UK PLUG



瑞士标/SWISS PLUG



印度标/INDIA PLUG



意大利标/ITALY PLUG



以色列标/ISRAEL PLUG



欧标(两插)/EU PLUG



日标/JAPAN PLUG



巴西标/BRAZIL PLUG

## COMMON OUTPUT CONNECTORS

### 常用输出接头



鳄鱼夹/Crocodile clip



鳄鱼夹/Crocodile clip



航空输出头/Air plug



安能连接器/Anderson



卡依头/XLR head



端子/Terminal



T型品字头/IEC13



8字尾/8 suffix



安德森端子/Anderson-PP



XT60、XT90



莲花头/RCA



DC输出头/DC5.5\*2.1/2.5

Power cord details (selected according to the region of use)  
电源线详情(根据使用地区选择)



Yamaha



Ez-go RXV



Crows Foot Plug



With SB50 Plugs



Golf Cart Round Plug



Crows Foot Plug



Ez-go Flat angle

PRODUCT APPLICATION  
产品应用



平衡车 / Balance bikes



电动车 / Electric bikes



电动摩托车 / E-motorbike



扫地机 / Floor washing



电动AGV / Electric agv



自动叉车 / Forklift



机器人 / Robot



冲浪板 / Surfboard



高尔夫球车 / Golf carts



观光车 / Sightseeing car



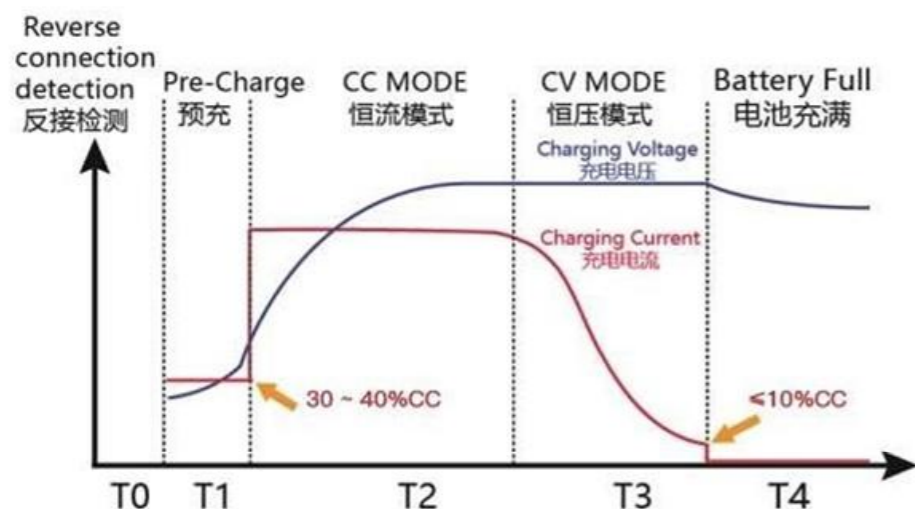
园林工具 / Power tool



游艇 / E-yacht

## CHARGING CURVE DIAGRAM

### 充电曲线示意图



工作温度: -20°C — +40°C

储存温度: -40°C — +70°C

**T0 反接检测:** 充电器刚接入 AC 后的 10 秒内, 保持关闭输出的状态, 同时检测电池连接是否接反。若连接接反, 会有故障提示。若连接正确, 则会自动进入下一阶段。

**T1 预充:** 充电器打开输出, 使用小电流为电池预充电。电池电压过压的时候直接进入大电流快充会对电池循环寿命有较大损耗, 此阶段是为电池进入大电流快速充电前的预热。此阶段的前 10 秒, 固定使用小电流充电, 10 秒后如果电池电压依旧较低, 则保持在此阶段。如果电池电压已达到可进行大电流充电时, 则自动进入下一阶段。

**T2 恒流阶段:** 充电器开启最大电流输出, 为电池快速充电。当电池电压达到最高充电电压时, 自动进入下一阶段。

**T3 恒压阶段:** 充电器将输出电压恒定在电池充满电压值, 此时电池继续充电, 但充电电流在慢慢减小。当电流减小到最大值的 5%-10% 时, 判定为电池充满。

**T4 充满关断:** 电池判定为充满后, 充电器关断输出。若此时未拔下 AC, 充电器会保持检测电池电压, 当检测到电池电压低于设定值时, 进入自动补电阶段。

**T5 自动补电:** 因为电池自耗电、保护板均衡或者电池接入负载放电, 电池电压会下降, 当充电器检测到电池电压低于设定值时, 自动打开输出, 为电池充电, 以保持电池满电状态。

若充电器 AC 一直不拔下, 则充电器会循环 T4-T5 阶段, 以保证电池满电状态。

**重点说明: 可根据客户需求调整各阶段条件参数, 可接受客户自定义充电流程, 可配合客户开发设计自定义充电流程。**

**T0 Reverse connection detection:** within 10 seconds after the charger is connected to AC, it will keep the output closed, and detect whether the battery connection is reversed. If the connection is reversed, there will be a fault prompt. If the connection is correct, it will automatically enter the next stage.

**T1 Precharge:** The charger turns on the output and uses small current to precharge the battery. When the battery voltage is too high, it will directly enter the high current fast charge, which will have a great loss on the battery cycle life. This stage is the preheating before the battery enters the high current fast charge. In the first 10 seconds of this phase, charge with low current. If the battery voltage is still low after 10 seconds, maintain this phase. If the battery voltage has reached the point where it can be charged with large current, it will automatically enter the next stage.

**T2 Constant current stage:** the charger turns on the maximum current output to quickly charge the battery. When the battery voltage reaches the maximum charging voltage, it will automatically enter the next stage.

**T3 Constant voltage stage:** The charger will keep the output voltage constant at the full charge voltage of the battery. At this time, the battery continues to charge, but the charging current is slowly decreasing. When the current decreases to 5% - 10% of the maximum value, it is determined that the battery is fully charged.

**T4 Automatic shut-off:** after the battery is judged to be full, the charger turns off the output. If the AC is not unplugged at this time, the charger will keep detecting the battery voltage. When the battery voltage is detected to be lower than the set value, it will enter the automatic power replenishment phase.

**T5 Automatic recharge:** because the battery is self consumed, the protection board is balanced, or the battery is connected to the load and discharged, the battery voltage will drop. When the charger detects that the battery voltage is lower than the set value, it will automatically open the output to supplement the battery, so as to keep the battery fully charged.

If the AC input of charger is not unplugged all the time, the charger will cycle T4-T5 stages to ensure that the battery is fully charged.

**Key notes: The condition parameters of each stage can be adjusted according to customer needs, the customer defined charging process can be accepted, and the customer defined charging process can be developed and designed in cooperation with the customer.**

## CHARGER PARAMETER TABLE

### 充电器参数表

2025.04.10

型号 Model	输入电压 Input Voltage (VAC)	功率 Power	尺寸/MM Size/mm	重量 (KG)	电压和充电电流 Voltage and Charge Current										备注 Remark
					12V	24V	36V	48V	60V	72V	84V	96V	108V	120V	
UMINI	110-220Vac	120W	122*69*45	0.5	6A	3A	2.5A	2A							
UY120	110-220Vac	120W	137*90*50	0.6	6A	4A	2.5A	2A							
UY180	110/220Vac	180W	157*90*50	0.9	8A	5A	4A	3A	2.5A	2A					
UY240	110/220Vac	240W	172*90*50	1.0	10A	8A	5A	4A	3A	2.5A					
UY360	110/220Vac	360W	172*90*63	1.2	20A	12A	8A	6A	5A	4A	3A				
UY600	110/220Vac	600W	208*120*70	2.5	30A	20A	12A	10A	8A	6A	5A				
UY900	110/220Vac	900W	222*134*70	2.5	40A	25A	20A	15A	12A	10A	8A				
UY900C	220Vac	900W	222*135*69	2.5	50A										
UY1200	110/220Vac	1200W	263*150*90	3.5	50A	33A	25A	20A	15A	12A	11A	10A	8A	6A	
UY1500	110/220Vac	1500W	293*150*90	3.5	70A	50A	30A	25A	20A	16A	14A	12A	10A	8A	
UY2000	110/220Vac	2000W	303*150*90	4.5	90A	60A	40A	30A	25A	20A	18A	16A	10A	9A	
UY2500	110/220Vac	2500W	303*150*90	5	100A	65A	45A	38A	30A	23A	20A	18A	16A	15A	
UY600L	110-220Vac	900W	209*120*70	1.6	30A	20A	15A	10A	8A	7A					
UY900L	110-220Vac	900W	242*134*70	2.5	40A	30A	20A	15A	12A	10A	8A				
UY2000L	110/220Vac	2000W	316*149*90.6	2.7	...	60A	45A	30A	25A	22A					
UY240LP	110-220Vac	240W	172*90*50	1.7	10A	8A	5A	4A	3A	2A					
UY300LP	110-220Vac	300W	200*93*49	2.0	17A	10A	7A	5A	4A	3A					
UY360LP	110-220Vac	360W	220*93*49	2.5	20A	12A	8A	6A	5A	4A					
UY600S	110-220Vac	600W	262*136.4*89	4	...	20A	12A	10A	8A	6A					
UY900S	110-220Vac	900W	262*136.4*89	4	30A	30A	20A	15A	12A	10A					
UY1200S	110-220Vac	1200W	250*165*93	5	55A	40A	27A	20A	16A	13A					
UY1500S	220Vac	1500W	250*165*93	5	55A	40A	30A	25A	20A	16A					