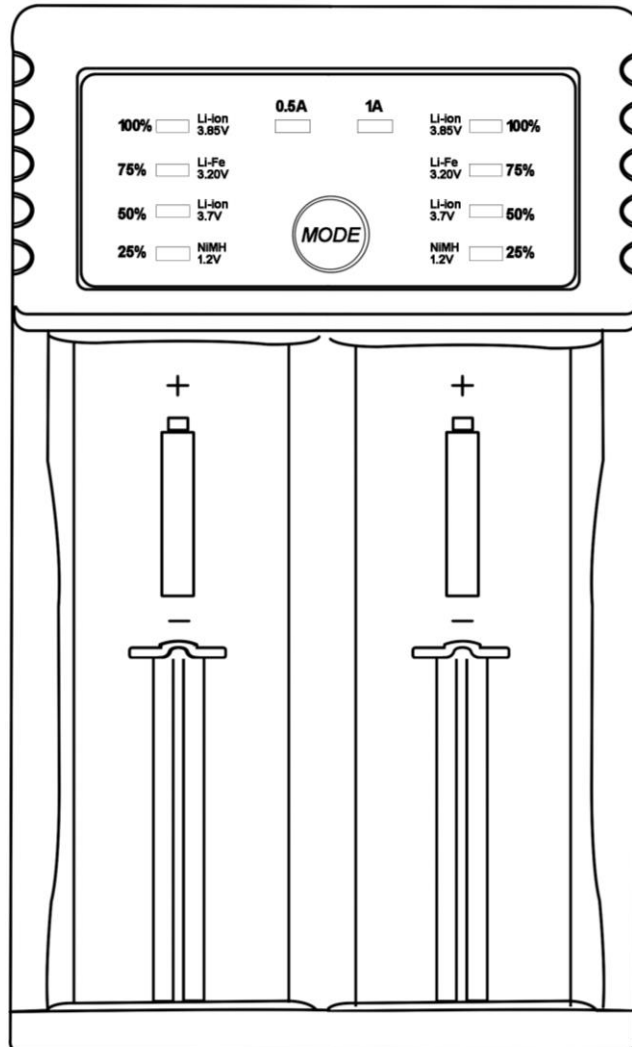


# Smart Universal Battery Charger



This charger is designed for portable, flexible and multi types of battery. It can detect the battery type and charge the battery automatically under your selected charging current. Built-in LED indicators to display the charging status and 5V/100mAh USB output function

## USER MANUAL

### 1. Warming:

- This charge is only for charging cylindrical li-ion (3.7V, 3.8V), Ni-MH/Ni-Cd, LiFePO4(Li-ion) batteries.
- Please read this instruction before use; Pay attention to the recommended charging current, never select improper charging current
- When charge with 5V USB AC adapter, 2A-current AC adapter is recommended
- The charger may get hot during working a long time, handle with care!
- Please cut off the electricity and remove the battery from the charger when charging complete.
- Indoor condition only!!
- The displaying data of the charger is only for reference; please refer to professional test instruments if you need accurate data

### 2. Feature and Specification:

- Micro USB DC 5V input, two independent slots and charging channels with built-in micro-computer management system to ensure the high efficiency
- Two charging current options (0.5A/1.0A)
- Four LED indicators shows the charging status (25%, 50%, 75%, 100%) and also shows the battery type when insert into battery (1.2V Ni-MH , 3.2V Li-Fe, 3.7V Li-ion, 3.85V li-ion)
- Identify Li-ion and Ni-MH automatically; But, you need to adjust the charge mode for LiFePO4 and 3.85V li-ion battery
- It can active 0V rechargeable battery but the charger don't charge 1.65V ~ 1.85V battery types.
- Built with Over-charging protection, over-discharging protection and polar reverse protection. Also, it can identify broken battery.
- Charging mode: instant current and voltage.
- DC input charging: working power source at 5V-2A (Micro plug)
- Standard automatical 5V/1000mAh USB output port

### 3. Select Button, LED and function.

#### **MODE** Button:

- Press the button to select the battery type when insert into a battery. It begin to charge the battery after fixing the battery type (please noted that it identify Li-ion and Ni-MH automatically, don't need to select manually)
- Press the button and hold it for 2 seconds whenever after connection to power, it can switch the charging current between 0.5A and 1.0A;

#### LED Indicator

- Connect the charger to power, all LED indicators will be on, when no battery insert after 5 seconds, LED indicators will be off except the 0.5A current indicator
- When battery is inserted into the charger, 4 LED indicators will be on and 3.7V LED indicators flicker, then, please click the **MODE** button to fix the correct battery type. It will begin to charge the battery 5 seconds later, and the LED indicators will show the charging status.
- Press the **MODE** button to show the battery type( 5 seconds ) during charging and return to show the charging status
- It can shows the battery's remaining power when put battery into the charger ( no connection with charging power)
- USB output indicator: When USB output is detected, the battery volume indicators will be on for 10 seconds and then off, click the button to show the battery's volume rate.

#### 4. Specification:

- Input: Micro USB DC 5V/2A
- Output: 1.4V , 4.2V $\pm$ 0.05V , 3.65 $\pm$ 0.05V , 4.35 $\pm$ 0.05V
- Output current: 500/1000mAh
- Constant voltage charging, cutoff current: < 100mAh
- Standby current:<15mAh

#### 5. USB Output Function

- USB output no-load voltage: 4.90V-5.30V
- Output current: 1000mAh (1A)
- No-Load current: < 1mAh
- The output voltage is 4.75V-5.25V when current is 1000mAh
- Output protection voltage: 3.0 $\pm$ 0.1V

#### 6. Compatibility

- Li-ion/IMR: 18650, 18490, 18350, 17670, 17500, 16340(RCR123), 14500, 10440

#### 7. Size

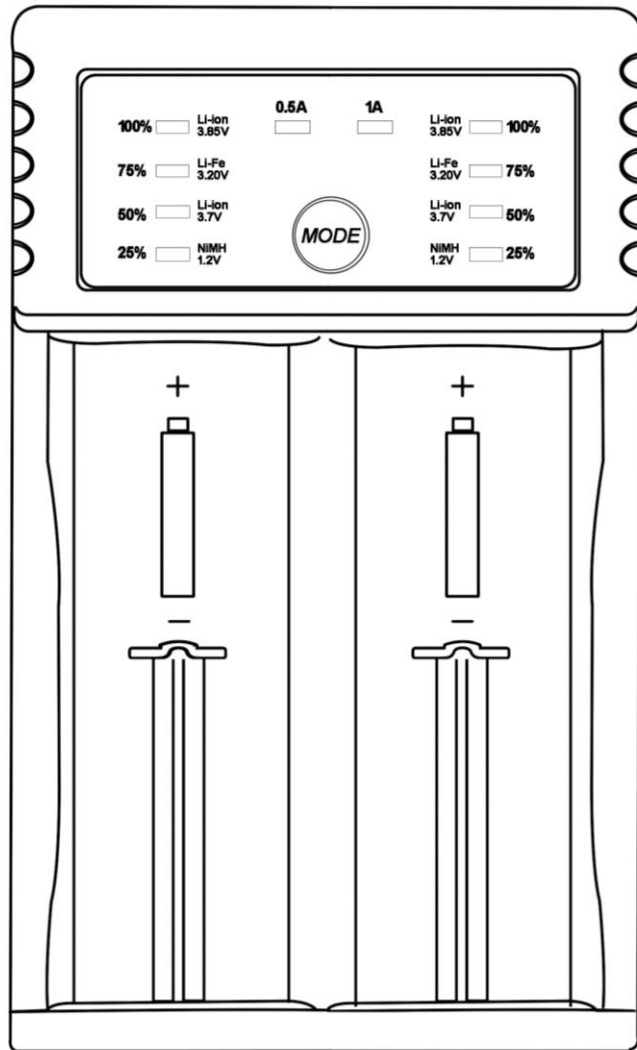
- 112mm $\times$ 60mm $\times$ 30mm/ 86grams + 15gram USB cable



Design and made in China

Contact distributor for more information or support

# 智能充电器



# 使用说明书

## 警告

- 此充电器只可以充圆柱锂离子电池(3.7V,3.8V)，镍氢/镍镉、磷酸铁锂电池
- 在使用前，请认真参考说明书,注意充电电池的推荐充电电流,不要超过推荐电流充电
- 使用 5V USB 适配器充电(适配器电流建议 2A)
- 充电器充放电时可能会发热,注意不要烫伤
- 停止使用时,请拔掉电源，拔除电池
- 只可以在正常室内使用
- 此产品检测数据仅供参考，实际情况请参照专业仪器

## 充电器要求及功能:

- 采用 Micro USB DC 5V 输入,两槽独立充电及微电脑管理系统
- 可供 2 种充电电流选择 (500mA /1000mA)
- LED 显示充电状态 25% 50% 75% 100%和电池类型 NiMH 1.2V Li-Fe 3.2V Li-ion 3.7V Li-ion 3.85V.
- 可自动识别锂电(Li-ion)电池及镍氢(Ni-MH)电池,手动选择磷酸铁理(Licpo4) 和 Li-ion 3.85V 电池
- 有 0V 电压激活功能,1.65-1.85V 不能充电(但会有激活电流涓流型式充电)。
- 有过充过放，短路，智能识别坏电池及反接电池检测保护。
- 充电模式，恒流恒压
- 采用 DC 输入,充电器工作电源为 5V-2A (Micro 插头)
- 带标准 5V/1000mA USB 自动识别输出功能,

## 按键、LED 及功能的描述

- 按键：在通电情况下，任何时候按住选择键保持 2 秒钟互相转换 500mA 1000mA 充电电流；通电对电池充电的时候，轻按选择键改变充电电池类型，当选定需要充电电池类型时（例 3.20V 3.85V）5 秒钟进入充电状态。
- LED：充电器接上 5V 电源，充电器所有的 LED 瞬间全亮，如果电池未放入充电槽，500mA（LED）指示灯常亮，其他灯熄灭；  
当检测有电池时，4 个 LED 灯全亮，3.7V LED 灯会闪烁，此时可轻按按键选择所需要充电的电池类型，如果不选择，5 秒后进入默认识别的电池进行充电，此时充电指示灯按照对应电量比率闪烁。轻按按键可查询充电类型（不作电量指示）5 秒后返回充电状态。不通电时，装入电池可查看电量比率（5 秒后熄灭，需要查看再次按下）
- USB 输出指示：当检测到 USB 输出时，电量指示灯亮起 10 秒后熄灭，按键可查看电量。

## 电气技术参数：

- 输入电源：Micro USB DC 5V/2A
- 输出电压：1.42V  
 $4.2V \pm 0.05V$ ,  
 $3.65 \pm 0.05V$   
 $4.35 \pm 0.05V$
- 输出电流：500mA/1000mA
- 恒压充电，截止电流：<100m A;
- 外接电源待机电流：<15.0m A;

### USB 输出功能:

- USB 端口输出空载电压: 4.90-5.30V;
- 输出电流: 1000 m A;
- 空载电流:<1m A;
- 负载 1000m A 电流时, 其端口输出电压: 4.75-5.25V;
- 停止输出保护电压:  $3.0 \pm 0.1V$ ;

### 兼容电池:

Li-ion / IMR: 18650, 18490, 18350, 17670, 17500, 16340(RCR123), 14500, 10440

### 充电器尺寸:

- 长 x 宽 x 高: 112mmx 60mmx30mm
- 重量: 86+15g (USB 充电线)



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