

## MX1300A 充电器使用说明书

## User Manual for MX1300A Charger



# 深圳市联可新材科技有限公司

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## 1、产品概述 / Product Overview

MX1300A 是一款适用于锂电池的智能充电器，具有高效率、多重保护和 IP65 防水等级。

The MX1300A is an intelligent charger designed for Lithium batteries, featuring high efficiency, multiple protections, and an IP65 waterproof rating.

## 2、技术参数 / Technical Specifications

项目 Item	参数 / Specification				
输出电压 Output Voltage	43.8V±0.2V	58.4V±0.2V	69.35V±0.2V	73V±0.2V	87.6V±0.2V
输出电流 Output Current	25A ± 0.2A	18A ± 0.2A	15A ± 0.2A	15A ± 0.2A	12.5A ± 0.2A
最大输出功率 Max Power	1095W	1050W	1095W	1040W	1095W
输入电压范围 Input Voltage	100 - 240Vac, 50/60Hz				
效率 Efficiency	≥90% @120Vac, ≥92% @230Vac				
外壳材质 Shell Material	铝 / Aluminum				
防水等级 Waterproof Rating	IP65				
尺寸 Dimensions	232×136.5×76(115.5)mm				
净重 Net Weight	2.8kg				

## 3、充电指示灯说明 / Charging Indicator

43.8V25A

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阶段 / Stage	电压 / Voltage	电流 / Current	指示灯状态 / Indicator
S1	20V → 30.5V	3.0A	红灯快闪 / Red flashing fast
S2	30.5V → 42.5V	25A	红灯慢闪 / Red flashing slowly
S3	42.5V → 43.8V	8A → ≤3A	绿灯慢闪 / Green flashing slowly
S4 (充满)	43.8V	0A	绿灯常亮 / Green steady on
<b>58.4V18A</b>			
S1	27V → 40.8V	2.3A	红灯快闪 / Red flashing fast
S2	40.8V → 56.8V	18A	红灯慢闪 / Red flashing slowly
S3	56.8V → 58.4V	6A → ≤2A	绿灯慢闪 / Green flashing slowly
S4 (充满)	58.4V	0A	绿灯常亮 / Green steady on
<b>69.35V15A</b>			
S1	31.7V → 48.3V	1.8A	红灯快闪 / Red flashing fast
S2	48.3V → 67.3V	15A	红灯慢闪 / Red flashing slowly
S3	67.3V → 69.35V	5A → ≤2A	绿灯慢闪 / Green flashing slowly
S4 (充满)	69.35V	0A	绿灯常亮 / Green steady on
<b>73V15A</b>			
S1	33.4V → 50.8V	1.8A	红灯快闪 / Red flashing fast
S2	50.8V → 70.8V	15A	红灯慢闪 / Red flashing slowly
S3	70.8V → 73V	5A → ≤2A	绿灯慢闪 / Green flashing slowly
S4 (充满)	73V	0A	绿灯常亮 / Green steady on
<b>87.6V12.5A</b>			
S1	40V → 61V	1.5A	红灯快闪 / Red flashing fast

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S2	61V → 85V	12.5A	红灯慢闪 / Red flashing slowly
S3	85V → 87.6V	4.7A → ≤2A	绿灯慢闪 / Green flashing slowly
S4 (充满)	87.6V	0A	绿灯常亮 / Green steady on

## 4、保护功能 / Protection Features

输入过压/欠压保护 / Input Over/Under Voltage Protection

输出过压保护 / Output Over Voltage Protection ( $\geq 90V$ )

过温保护 / Over Temperature Protection ( $\geq 45^{\circ}C$  降额 70%)

定时保护 / Timing Protection (14 小时自动停止)

电池反接保护 / Reverse Polarity Protection

短路保护 / Short Circuit Protection

低压保护 / Under Voltage Protection ( $< 43.8V$ )

## 5、使用环境 / Operating Environment

工作温度 / Operating Temperature:  $-10^{\circ}C \sim +45^{\circ}C$

存储温度 / Storage Temperature:  $-40^{\circ}C \sim +70^{\circ}C$

湿度 / Humidity: 5% ~ 95% (带包装)

海拔 / Altitude:  $\leq 3000m$

## 6、安装与使用 / Installation & Usage

### 确认输入电压 / Confirm Input Voltage

在使用前，请确保您当地的交流电源电压在 100V 至 240V 之间。确保电源插座接地良好。

Before use, please ensure that your local AC power supply voltage is between 100V and 240V. Ensure the power outlet is properly grounded.

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## 连接电池 / Connect the Battery

首先将充电器的输出端子与电池的对应端子连接。

First, connect the output terminals of the charger to the corresponding terminals of the battery.

务必确保正极 (+) 接正极，负极 (-) 接负极。 尽管本机具备反接保护，但错误的连接仍可能触发保护机制而无法充电。

Ensure the positive (+) terminal is connected to the positive, and the negative (-) to the negative. Although the unit has reverse polarity protection, incorrect connection may still trigger the protection and prevent charging.

## 接通电源 / Connect to Power

将充电器的电源线插入交流电源插座。

Plug the charger's power cord into the AC power outlet.

此时，充电器将自动启动并开始工作。观察指示灯状态以了解当前充电阶段（请参考“充电指示灯说明”章节）。

The charger will automatically start up and begin operation. Observe the indicator light to understand the current charging stage (please refer to the "Charging Indicator" section).

## 充电完成与断开 / Charging Completion and Disconnection

当电池充满时，指示灯将变为 绿灯常亮，输出电流将接近于零。

When the battery is fully charged, the indicator will become a steady green light, and the output current will drop to nearly zero.

此时，您可以先断开交流电源，然后再断开充电器与电池之间的连接。

At this point, you can first disconnect the AC power supply, and then disconnect the charger from the battery.

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## 重要提示 / Important Notes

请勿在潮湿、高温（环境温度超过 45° C）、密闭或易燃易爆环境中使用充电器。 请保持通风良好。

Do not use the charger in damp, high-temperature (ambient temperature exceeding 45° C), confined, or flammable and explosive environments. Ensure adequate ventilation.

若充电器因保护功能而停止工作，请先排除故障（如检查电池电压、连接是否正确、温度是否过高等），然后重新连接电源以恢复工作。

If the charger stops working due to a protection function, please first eliminate the fault (e.g., check battery voltage, connection correctness, excessive temperature, etc.), then reconnect the power to resume operation.

若充电时间超过 14 小时，充电器将自动停止充电以保护电池。

If the charging time exceeds 14 hours, the charger will automatically stop charging to protect the battery.

## 7、存储与维护 / Storage & Maintenance

存储时请置于原包装内，远离热源、湿气和腐蚀性气体。

Store it in its original packaging when not in use, keeping it away from heat sources, moisture, and corrosive gases.

长期存储请每三个月通电一次，每次不少于 0.5 小时。

For long-term storage, please power it on every three months, with each session lasting at least 0.5 hours.

存储期限为 2 年，超期需重新检测。

The storage period is 2 years; if it exceeds this period, it needs to be re-tested.

## 8、安全认证与测试 / Safety & Compliance

耐压测试 / Electric Strength: 1500Vac/1min

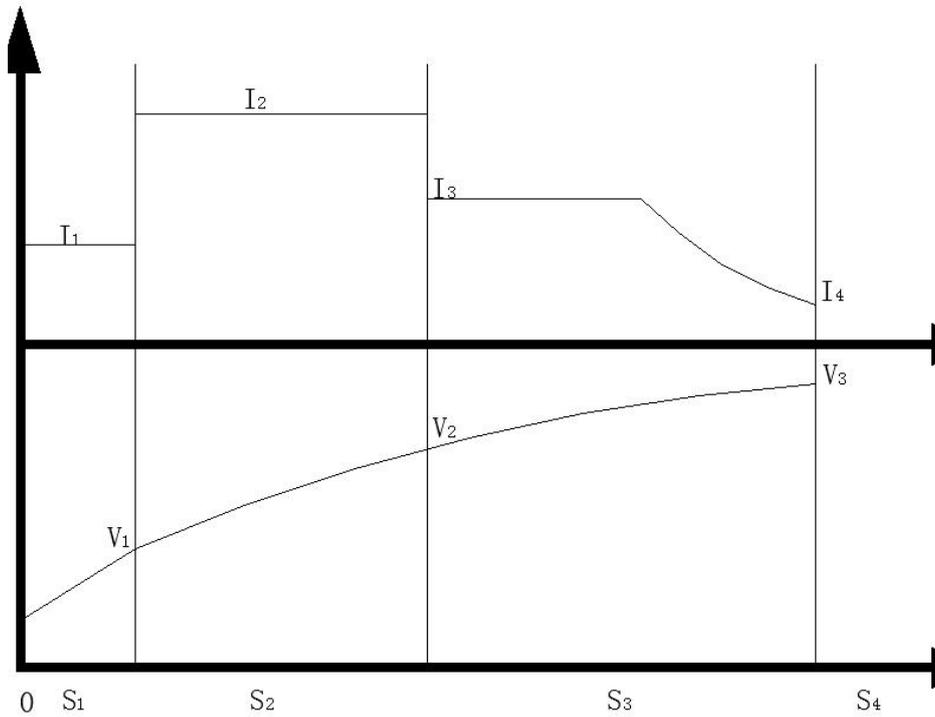
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绝缘电阻 / Insulation Resistance:  $\geq 10\text{M}\Omega$

泄漏电流 / Leakage Current:  $< 3.5\text{mA}$

符合 / Complies with: EN60335-1, EN60335-2-29

## 9、充电曲线 / Charging Curve



## 10、包装清单 / Package Contents

序号 No.	名称 Name	数量 Quantity
1	充电器 Battery Charger	1PCS
2	AC 电源线 AC Power Cord	1PCS
3	DC 输出线 DC Output Cable	1PCS
4	使用说明书 Manual	1PCS