B80 用户手册



感谢您购买ISDT B80 智能平衡充电器。

欢迎您登陆艾斯特官方网站www.isdt.co了解更多智能平衡充电器功能,购买丰富相关配件。由于产品功能的不断更新,您手中的说明书可能会与实际操作有所出入。请以实际智能平衡充电器功能为准。

警告与安全提示

为确保您的安全和良好的用户体验,请在使用本产品前阅读本说明和警告。

- 不要在无人值守的情况下使用充电器,如充电器出现任何功能异常,请立即终止使用并对照说明书查阅 原因;
- 确保充电器远离灰尘、潮湿、雨和高温、避免阳光直射及强烈震动。
- 请将充电器放置于耐热、不易燃及绝缘的表面。不要放置在车座、地毯等类似的地方使用。请确保易燃、 易爆炸物品远离充电器的操作区域;
- 确保您已充分了解所使用电池的充放电特性及规格,并在充电器中设置恰当的充电参数。如参数设定错误,可能对充电器及电池造成损坏,甚至发生火灾、爆炸等灾难性后果。

接入电池前请确保电池电压与本产品工作电压范围相符;工作过程中请确保选择的串数与接入电池串数一致。





使用过程中确保本产品远离热源及潮湿环境,并注意通风散热;本产品工作过程中将产生大量热量,切勿让儿童操作,以免烫伤;使用结束后,应尽快断开及移除电池。

产品规格

平衡电流: 2A/Cell Max输出电压范围: DC 20~80V电池电压异常报警: 支持最大输入电流: AC 16A串数设定错误报警: 支持

最大充电功率: 3000W (@220V AC) BattAir功能: 支持 1500W (@110V AC) 工作温度: 0~40℃

最大放电功率: 200W 尺寸: 356 × 136.8 × 164.1 mm

重量:约3973g

支持电池类型及串数: LiFe (8~22S), LiPo (6~18S), LiHv (6~18S), ULiHv (6~18S)

充电器预设电池类型及任务参数

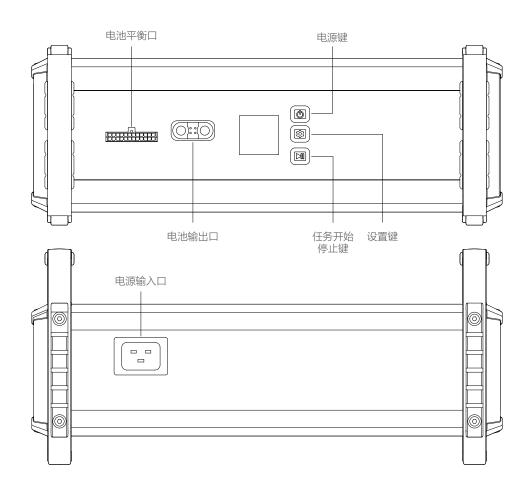
	额定电压	满充电压	存储电压	放电电压	平衡充	非平衡充	支持串数	最大充电电流
LiFe	3.20V	3.65V	3.30V	2.90V	√	√	8-225	40A
LiPo	3.70V	4.20V	3.80V	3.30V	√	√	6-185	40A
LiHv	3.80V	4.35V	3.85V	3.40V	√	√	6-185	40A
ULiHv	3.85V	4.45V	3.90V	3.50V	√	√	6-185	40A

如何确定充电电流 如何确定充电电流

在充电前必须先了解清楚所用电池允许的最大充电电流,使用过大的电流对电池充电会对电池的寿命造成影响甚至损坏,过大的电流也会造成充电过程中电池发热甚至爆炸。

电池充放电能力-般以C数来标识,充电C数乘以电池容量就是电池所支持的最大充电电流,例如1000mAh的电池,标识充电能力是5C,那么最大充电电流为: 1000*5=5000mA=5A,也就是最大支持5A充电。对于锂电池而言,如果无法确定电池充电C数,为了安全起见请将充电电流设定在不大于1C的值。充电C数与充电时间的参考关系:

充电时间≥60分钟/充电C数(例如使用1C充电, 充电完成时间大约需要60~70分钟),由于电池转换能效的差异,此时间有可能会有所延长。



● 任务设定

将充电器与电源连接上电,充电器自动开机,连接好电池,按下设置键进入任务设定菜单,设置好参数后按下任务开始/停止按键即可工作。

充电器除自定义任务外还有预设任务, 预设任务设定如下:

任务	充电,放电,存储
电池类型	LiFe, LiPo, LiHv, ULiHv
	LiFe (8~22S), LiPo (6~18S), LiHv (6~18S), ULiHv (6~18S)
电流设置	1~40A(Max)

充电

充电电流设定范围为1.0~40A(Max)。

对于锂电池,强烈建议连接平衡端口均衡充电,以确保充电器能够准确监测每个电池的电压, 并对不一致的电芯进行平衡操作。

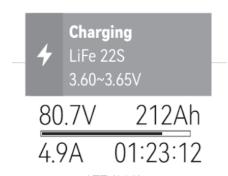
当使用非平衡模式(不连接到电池平衡口)充电时,充电器在开始任务前会有相应的报警提示。

放电

电流设定范围为0.5A~5.0A。

↑ 工作参数显示

信息内容按从上到下、从左到右的顺序依次是:工作模式、电池类型及串数、电池电芯电压、 电池总电压、已充入电量、输出电流、工作时间。



主页面 (充电中)

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③通过点击App右上角的"+"根据提示添加设备即可开始使用。





App下载

B80 User manual



Thank you for purchasing ISDT B80 smart charger.

Visit ISDT official site www.isdt.co for more detials about B80 and matching accessories. Since the produce is constantly updating, this manual may differ from the actual operation. Please refer to the actual function.

Warnings and Safety

To ensure the charging safety while offer better use experience, we insist that you should read these terms through before using the product.

- Never use the charger without supervision. When malfunction occurs, stop operation immediately and refer to this manual.
- Make sure that the charger stay away from dust, damp, rain and heat. Avoid direct sunlight and
- Make sure that the charger always on the heat-resistant, non-flammable and insulating surfaces. Do not use it on places like car seats or catpet. Keep inflammable and explosive objects away from the operation areas.
- · Make sure that you fully understand the features and properties of the battery you charge, and set the porper charging parameters before operating. Setting the parameters incorrectly may result in damage to the product, even cause catastrophic consequences such as fire, explosion, etc.

Before connecting the battery, please ensure that the battery voltage is in the rang of the working voltage of this product. During the working process, WARNING! please ensure that the number of battery cells selected is the same as that of the battery connected.

Only operate this device in a cool and ventilated area away from flammable objects.

This product may emit heat during use, so do not let children operate it.Disconnect and remove the battery as soon as possible after use.

Specifications

Model: B80 Charging current: 1.0~40.0A (Max)

Input voltage: AC 100~240V Discharging current: 0.5~5.0A (Max) Balance current: 2A/Cell Max

Output voltage: DC 20~80V Abnormal voltage alarm: Support

Max. input current: AC 16A Incorrect cell count setting alarm: Support

Max. charging power: 3000W (@220V AC) BattAir technology: Support

1500W (@110V AC) Working temperature: 0~40°C

1400W (@100V AC) Storage temperture: -20~60°C Max. discharging power: 200W Size: 356 × 136.8 × 164.1 mm

Weight: about 3973a

Supported battery types and cell count: LiFe (8~22S), LiPo (6~18S),

LiHv (6~18S), ULiHv (6~18S)

Preset Battery Type of Charger and Task Parameters

	Rated	Fully Charge	Storage	Discharge	Balance	Unbalanced	Supported	Max. Charge
	Voltage	Voltage	Voltage	Voltage	Charge	Charge	Cell Count	Current
LiFe	3.20V	3.65V	3.30V	2.90V	√	√	8-225	40A
LiPo	3.70V	4.20V	3.80V	3.30V	√	√	6-185	40A
LiHv	3.80V	4.35V	3.85V	3.40V	√	√	6-185	40A
ULiHv	3.85V	4.45V	3.90V	3.50V	√	√	6-185	40A

How to Confirm Charge Current

Make sure to know the maximum charging current of the battery before charging, never use excessive current to charge to damage your battery, which will result in over heat even explosion during the charging process.

The charging and discharging capacity of battery is usually marked with C value.

Multiplying the charging C value and battery capacity equals to the maximum charging current supported by the battery.

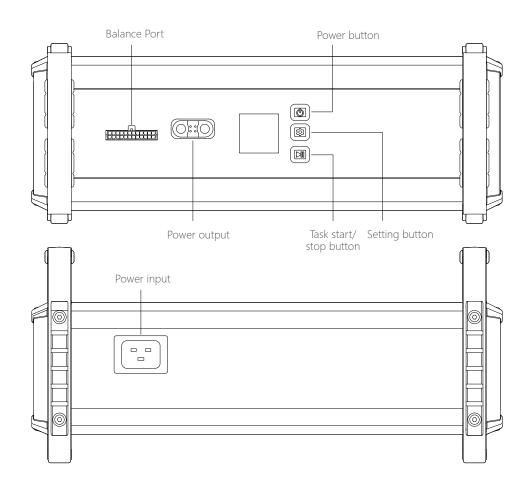
For example, for a 1000 mAh battery with a charging capacity of 5C, the maximum charging current would be 1000*5=5000mA; therefore, the maximum charging current is 5A.

For a lithium battery, if it is impossible to confirm the supported charging C value, please set the charging current below 1C, for the sake of its (lithium battery) safety.

The reference relation between C value and charging time:

charging time ≥60 minutes/ charging C value (e.g. it needs around 60-70 minutes to complete charging with 1C).

Due to differences in battery conversion efficiency, the time to complete the charging might be extended.



Task settings

Connect the charger to the power supply, and it will automatically turn on. Then connect the battery, press the setting button to enter the task setting menu,

After setting the parameters, press the task start/stop button to get it to work.

The task setting menu as follows:

Task	Charge, Discharge, Storage				
Battery	LiFe , LiPo, LiHv, ULiHv				
Current	LiFe (8~22S), LiPo (6~18S), LiHv (6~18S), ULiHv (6~18S)				
Battery and	1 400//04				
cell count	1~40A(Max)				

Charge

The charging current setting range is 1.0~40A (Max).

For lithium batteries, it is strongly recommended to connect them with the balance port for balance charging, which ensures the charger accurately monitor the voltage of each cell and balance the inconsistent ones.

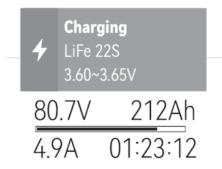
When charging in unbalance mode (without balance port connection), the charger will indicate alarm prompt before starting the task.

Discharge

The discharge current setting range is 0.5A~5.0A.

Display of task parameters

Top to bottom and left to right: Task mode, Battery type and cells, Battery cell voltage, Total battery voltage, Charged capacity, Output current, Working time.



Main page (charging)

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