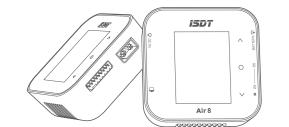
# Aîr8 500W 智能充电器

# 使用说明



# iSDT °

### 感谢您购买ISDT Air8 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 充申参数。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;



接口/按键

丁作讨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。



### 尺寸: 80×80×33mm 重量: 170g

USB 电源 触摸板 输出口 平衡口

## ↑ 产品规格

最大输入电流: 20A 充电电流: 0.1~20A 输入电压范围: DC 10~34V 放电电流: 0.1~1.5A 输出电压范围: DC 1~35V 最大充电功率: 500W 平衡电流: 1.5A/Cell Max 最大放电功率: 15W 电池电压异常报警: 支持

支持电池类型及串数: LiFe.Lilon.LiPo.LiHv.ULiHv 1~8S: Pb 1~12S; NiMH/Cd 1~16S

### 充电器预设电池类型及任务参数

	NiCd/MH	Pb	LiFe	Lilon	LiPo	LiHv	ULiHv		
定电压	1.20V	2.00V	3.20V	3.60V	3.70V	3.80V	3.90V		١
克电压	1.40V	2.40V	3.65V	4.10V	4.20V	4.35V	4.45V		
诸电压	×	X	3.30V	3.70V	3.80V	3.85V	3.95V		
电电压	0.90V	1.90V	2.90V	3.20V	3.30V	3.40V	3.50V		
衡充	×	X	<b>√</b>	~	~	<b>~</b>	~		
平衡充	<b>✓</b>	<b>~</b>	<b>√</b>	~	<b>~</b>	<b>√</b>	~		
寺串数	1~16S	1~12S	1~8S	1~8S	1~8S	1~8S	1~8S		
克电电流	20A	20A	20A	20A	20A	20A	20A		
								- 1	

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

电池充放电能力一般以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

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

如何确定充电电流

中电池发热甚至爆炸。

设定在不大干1C的值。

将Q8与电源连接上电,连接好电池,短按触摸板中间按键进入任务设定菜单,

菜单项如下:

任务	充电,放电,存储,直流电源,销毁电池
电池类型	LiHv, LiPo, Lilon, LiFe, Pb, NiMh/Cd, ULiHv
电池串数	LiFe, Lilon, LiPo, LiHv, ULiHv (1~8S),
	Pb (1~12S), NiMH/Cd (1~16S)
电流设置	0.1~20A

### 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

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。 电流设定范围为0.1~20A。 当连接BattAir电池时,电池类型、串数以及充电电流根据BattAir信息自动设定。

电流设定范围为0.1~1.5A。

当连接BattAir电池时,电池类型、串数以及放电电流根据BattAir信息自动设定。

电流设定范围为0.1~20A。

当连接BattAir电池时,电池类型、串数以及存储电流根据BattAir信息自动设定。

### 直流电源

连接需要报废的电池。在任务选项中选择报废功能。可将电池放电至OV。 电流设定范围为0.1~1.5A。

### 工作参数显示 工作中在触摸板上可以切换屏幕下半部分的信息显示内容, 信息内容依次为:

且不用连接平衡口也可显示各电芯电压

BattAîr OVONIC

€ 5.0C / 35.0C

☼ 123
♠ 3

BattAir信息

选择此功能是,本充电器相当于一个直流电源,输出电压为2~30V可调。

## 电流为0.5~10A可调。此项任务菜单中电池的类型、参数和电流都不可选。

当连接BattAir电池时,电池类型和串数根据BattAir信息自动设定。

各电芯电压、各电芯内阻、工作参数、BattAir信息。 其中电芯电压及内阻仅在平衡充电模式下

才会显示。 连接BattAir电池才会显示BattAir信息

LiPo 8S Charging

**1** 4.15V **2** 4.15V

7 4.15V 3 4.15V

**3** 4.15V **4** 4.15V

**5** 4.15V **6** 4.15V

2019-01-23

System info

C→ 22.5V / 400W

€ 60°C / 130°F

🛗 23 / 109pcs

20.5V / 600W

**C** 23.5V / 500W

**1** 23,3mΩ **2** 23,3mΩ 3 23.3mΩ 231mΩ **5** 23.3mΩ **6** 23.3mΩ

**7** 3.3mΩ **8** 23.3mΩ

各电芯内阻

各电芯电压

● 系统设定

APP显示

APP, 搜索添加Air8, 工作中可在APP

上显示各电芯电压和各电芯内阻。

最低输入电压限制

限制范围为10V~30V。

当使用电池作为输入电源时,此项设定可以保护电池不会过放。当充电器检测 到输入电压低于设定值、将立即停止所有在执行的任务并提示输入电压过低。

4.15V / 10.5mΩ

4.15V / 10.5mΩ

■ 4.15V / 10.5mΩ

4.15V / 10.5mΩ

63 4.15V / 10.5mΩ

4.15V / 10.5mΩ

4.15V / 10.5mΩ

**β** 4.15V / 10.5mΩ

将Air8与电源连接上电, 打开ISD Link く Air8 - My new charger &

待机界面下,长按一下触摸板中间按键弹出系统设定菜单、菜单项如下:

当连接的输入电源达不到充电器的最大工作功率(500W)要求时,为了保护 输入电源及使充电器稳定工作。需要根据电源的实际输出能力设定此参数。

当设定为OFF时,将屏蔽操作声提示,但不屏蔽错误提示音。

最大输入功率限制

限制范围为30~550W。

选择该项时可以进行手动自检操作。

该项可以校准充电器的输入电压、输出电压和平衡口电压。

www.isdt.co

\*本产品所有图片、声明及文字资料仅供参考、实际信息请参考官方网站 www.isdt.co.。 深圳市艾斯特创新科技有限公司拥有对本说明书内容的最终解释权和修改权。 Air8

### Aîr8 Please visit: www.isdt.co for more details on the functions of this smart charger, as well as purchase various accessories.

# Instruction Manual



500W SMART CHARGER



### Thanks for purchasing the ISDT Air8 Smart Charger.

Functions of products will be kept on upgrading, the manual in your hand

may be different from the actual operation, please refer to the actual functions.

### Warnings and Safety Tips

and cause serious injury as well.

For your safety and a better user experience, please read this manual and follow the instruction before using the new charger.

 Never use the charger without supervision, please stop using the charger and refer to the manual for reasons if any functional abnormity. Keep the charger away from dust, humidity, rain and high temperature, as well as avoid direct exposure to the sunlight and intense vibration. Place the charger on a heat-resisting, non-flammable and insulating surface. Do not use it on the car's seats, carpet or other similar places. Keep inflammable and explosive objects away from operation areas of the charger. Read the instruction manual carefully to be familiar with the features of the Fan Vent charger, and set proper charging parameters before operating. Setting the parameters incorrectly will result in damage to the product, personal property

Port / Buttons

Dimension: 80×80×33mm

Weight: 170g

Display Touch Power Balance

Product Specifications

Max. input current: 20A Charging current: 0.1~20A Input voltage: DC 10~34V Discharging current: 0.1~1.5A Output voltage: DC 1~35V Max. charging power: 500W Balance current: 1.5A/Cell Max Max. discharging power: 15W Abnormal voltage alarm: Support Supported battery types and cell count:

LiFe,Lilon,LiPo,LiHv,ULiHv 1~8S; Pb 1~12S; NiMH/Cd 1~16S

### Preset Battery Type of Charger and Task Parameters

	NiCd/MH	Pb	LiFe	Lilon	LiPo	LiHv	ULiHv	
ited voltage	1.20V	2.00V	3.20V	3.60V	3.70V	3.80V	3.90V	
charge voltage	1.40V	2.40V	3.65V	4.10V	4.20V	4.35V	4.45V	
rage voltage	×	X	3.30V	3.70V	3.80V	3.85V	3.95V	
harge vo <b>l</b> tage	0.90V	1.90V	2.90V	3.20V	3.30V	3.40V	3.50V	
lance charge	×	X	<b>✓</b>	<b>✓</b>	<b>✓</b>	<b>✓</b>	<b>✓</b>	V
lanced charge	<b>✓</b>	<b>✓</b>	<b>~</b>	<b>✓</b>	<b>✓</b>	<b>✓</b>	<b>✓</b>	
orted cell count	1~165	1~125	1~85	1~85	1~85	1~85	1~85	
harging current	20A							

For a lithium battery, if it is impossible to confirm the supported charging

The reference relation between C value and charging time:

C value, please set the charging current below 1C, for the sake of its (lithium

charging time ≥60 minutes/ charging C value (e.g. it needs around 60~70

conversion efficiency, the time to complete the charging might be extended.

minutes to complete charging with 1C). Due to differences in battery

How to Confirm Charging Current

Make sure to know the maximum charging current of the battery before can make sure to monitor voltage on each cell battery and balance it when charging, never use excessive current to charge to damage your battery, charging. Warning beeper will yell before start charging lipo if in non-balance which will result in over heat even explosion during the charging process. mode(no connecting with balance port). The charging and discharging capacity of battery is usually marked with Current setting range: 0.1~20A C value. Multiplying the charging C value and battery capacity equals to the The battery type, cell count and charging current are auto set accordingly maximum charging current supported by the battery. For example, for a 1000 when connecting with BattAir battery. mAh battery with a charging capacity of 5C, the maximum charging current would be 1000×5=5000mA; therefore, the maximum charging current is 5A.

Current setting range: 0.1~1.5A

The battery type, cell count and discharging current are auto set accordingly

when connecting with BattAir battery.

The battery type, parameter and current are not optional in this task.

Balancing port is strongly recommended when charging lipo battery, which

Current setting range: 0.1~20A

The battery type, cell count and storage current are auto set accordingly

Charge

when connecting with BattAir battery. DC Power supply

Operating the Charger The charger can be used as a DC power supply when choosing this function, Power on Q8 smart charger, connect the battery, and short touch with adjustable voltage 2~30V, and current 0.5~10A. the middle key of the touch board to enter the task setting menu as follows:

### Connect the battery to be scrapped, and select the scrap function in task

options, which capable to discharge the battery to 0V. Current setting range: 0.1~1.5A The battery type and cell count are are auto set accordingly when

Charge/Discharge/Storage/DC power supply/Desi Battery LiHv, LiPo, Lilon, LiFe, Pb, NiMh/Cd, ULiHv Battery and LiFe, Lilon, LiPo, LiHv, ULiHv (1~8S), cell count Pb (1~12S), NiMH/Cd (1~16S) Current 0.1~20A

Touching the touch board to shift the charging information, as cell voltage,

cell internal resistance, working parameter, BattAir information.

charging mode. The BattAir information will display only when

The cell voltage and internal resistance only on display in balancing

connected to the BattAir battery, and the cell voltage is able to display

## Charging Screen

without connected to the balance port.

20.5<sub>A</sub> 9999<sub>mAh</sub>

LiPo 8S Charging

**1** 4.15V **2** 4.15V

**5** 4.15V **6** 4.15V

7 4.15V 8 4.15V

Cell voltage

**3** 4.15V **4** 4.15V

□ 23 / 109pcs ₹ 20.5V / 600W

 Never attempt to charge primary (non-rechargeable) batteries. Batteries pose a severe risk of fire if not properly handled.

This unit may emit heat during use.

NEVER USE CHARGER UNSUPERVISED

Self-test: Enter system setting, select self-test task

Calibration: the input voltage, output voltage and balance voltage of

Min. input voltage protection 10~30V: all tasks in operation will be stopped

at once and hint warning of low voltage, when the input voltage is lower than

Max. input power setting 30~550W: if the input power is smaller than the max

working power(550W), please set up the parameter as the actual output power

as max input, to protect the input power and enable the charger to work stable.

Buzzer volume: The operation sound will be shielded when the volume is off.

the input voltage as set up. It will protect the battery from being discharged

the charger can be calibrated with this task.

Read entire operation manual before using charger.

when using battery pack as power supply.

except the warning error beep.

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

Failure to observe safety procedures may cause damages to property or injury.

ISDT reserves the right of final explanation and revision for the terms.

\*All product photos, statements and literature are for reference only. For up-to-date information,

System Setting Menu Under the standby interface.

long touch the touch board to enter the system setting menu:

■ OVONIC

€ 5.0C / 35.0C

2019-01-23

€2 123 **Ω** 3

23,3mΩ 23,3mΩ

5 23.3mΩ 5 23.3mΩ

**3.3m**Ω **3.3m**Ω

C+ 23.5V / 500W

C 22.5V / 400W

■ 23.3mΩ ■ 231mΩ

# WARNING! FIRE HAZARD!



