

ISDT®

405AC

智能充电器

用户手册

感谢您购买ISDT 405AC智能平衡充电器。

ISDT 405AC 是我们最新的创新型充电器，配备 GaN (氮化镓) 电源，是专为各种电池类型设计的多功能高功率密度充电解决方案。它可以通过连接手机进行操作，只需通过我们的 ISD Link APP 从您的手机简单连接即可，该应用程序允许用户自定义各种参数，以确保根据您的特定偏好实现最佳性能。

产品功能将不断升级，目前的手册可能会随着时间的推移而有所不同。请参阅我们的社交媒体以获取最新更新。

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。

- 请仔细阅读说明手册，熟悉充电器的功能，并在操作前设置正确的充电参数。参数设置不正确可能会导致产品损坏、从而造成您的财产损失，并有可能造成其他严重伤害。
- 切勿在无人看管的情况下使用充电器，若充电器出现任何功能异常，请立即停止使用并根据说明书检查原因。
- 确保充电器远离灰尘、潮湿、雨水和高温，避免阳光直射和强烈震动；
- 将充电器放置在耐热、不易燃和绝缘的表面上，请勿放置在汽车座椅、地毯或其他类似地方；
- 请确保易燃易爆物品远离充电器的操作区域；
- 请确保您对所用电池的充放电特性和规格有充分的了解，并在充电器中设置合适的充电参数。如果参数设置不正确，可能会造成充电器和电池的损坏，甚至引起火灾、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。



警告!



远离火源!

产品规格

输入电压范围:AC 100~240V

充电电流:0.1~5A

最大充电功率:60W

平衡电流:0.5A/Cell Max

支持电池类型及串数:LiFe, LiHv, LiPo 1~4S, Pb 2~7S, NiMH/Cd 2~12S

尺寸:88×85×38mm

最大输出电压:DC 5-18.5V

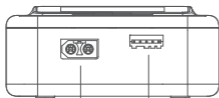
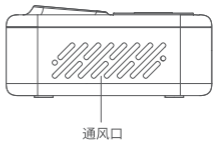
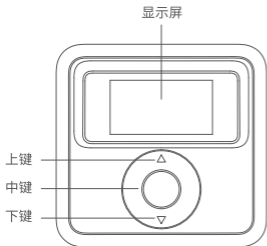
放电电流:0.1~1A

最大放电功率:5W

工作温度:0~40°C

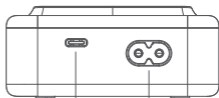
重量:约150g

📖 接口 / 按键



电池输出口

平衡口



USB-C升级口

电源输入口
(AC100-240V)

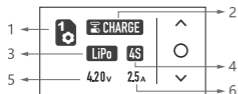
按键操作说明

- 在任务选择界面，长按中键进入参数修改模式，可修改参数会闪烁；
- 短/长按上下键可修改参数值，短按中键切换到下一参数进行修改；
- 长按中键保存并退出参数修改模式；
- 在任务选择界面短按中键可以开始当前任务，长按上/下键可返回主页面；
- 充电任务的过程中，可以通过短按中键调整充电电流，长按中键结束当前任务。

操作充电器

在操作充电器之前，请先了解电池规格和任何特定于电池的安全警告。

1. 将随附的交流电源线连接到充电器或适当的电源，为充电器供电。
2. 将电池连接到充电器正面的端口。
3. 连接平衡导线，确保平衡导线直接连接到平衡端口。（强烈建议不要添加额外的平衡板，否则可能会误读正确的电池电压）
4. 短按一次中键进入设置菜单。
5. 长按中键调整您想要的任务，然后再次长按保存。
6. 仔细检查从电源到电池的连接是否正确。
7. 再次按下中键开始充电。



- | | |
|-----------|---------|
| 1. 预设任务序号 | 2. 任务类型 |
| 3. 电池类型 | 4. 电池串数 |
| 5. 充电结束条件 | 6. 充电电流 |

充电器预设电池类型及任务参数

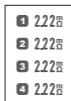
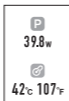
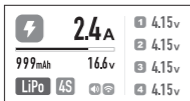
	额定电压	满充电压	存储电压	放电电压	平衡充	非平衡充	支持串数	最大充电电流
NiCd/MH	1.20V	1.40V	✗	0.90V	✗	✓	2-12S	5A
Pb	2.00V	2.40V	✗	1.90V	✗	✓	2-7S	5A
LiFe	3.20V	3.65V	3.30V	2.90V	✓	✓	1-4S	5A
LiIon	3.60V	4.10V	3.70V	3.20V	✓	✓	1-4S	5A
LiPo	3.70V	4.20V	3.80V	3.30V	✓	✓	1-4S	5A
LiHv	3.80V	4.35V	3.85V	3.40V	✓	✓	1-4S	5A
ULiHv	3.90V	4.45V	3.90V	3.50V	✓	✓	1-4S	5A

工作参数显示

充电过程中, 只需按上下按钮即可读取电池信息。它将提供:

1. 充电模式
2. 充电电流
3. 电池电压
4. 充电充入容量
5. 总充电功率
6. 每个电池的内阻/每节电芯的内阻
7. 温度
8. 蜂鸣器状态
9. 蓝牙连接状态

注意: 仅在平衡充电模式下显示电池电压和内阻。



无线连接

应用程序连接, 扫描底部的二维码下载并安装ISD Link APP

1. 打开APP前, 请打开无线通信和蓝牙。
2. 打开APP并点击右上角的“+”符号开始搜索正在运行的设备。(将手机靠近设备以获得最佳连接)
3. 设备将发出哔哔声以指示连接。
4. 确认设备上的连接。



App下载

*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。

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ISDT®

405AC

SMART CHARGER

USER GUIDE

Thank you for purchasing the ISDT 405AC Smart Balance Charger.

The ISDT 405AC is our latest innovative Charger equipped with GaN (Gallium Nitride) power supply for versatile and high-power density charging solution designed for various battery types. Its fully programmable with a simple connection from your mobile phone via our ISD Link APP which allows users to customize various parameters to ensuring optimal performance tailored to your specific preferences.

Functions of products will be kept on upgrading, the manual currently may be different as time passes. Please refer to our social media for the latest updates.

Warnings and Safety Tips

To ensure your safety and a good user experience, please read these instructions and warnings before using this product.

- Read the instruction manual carefully to be familiar with the features of the charger and set proper charging parameters before operating. Setting the parameters incorrectly will result in damage to the product, personal property and cause serious injury as well.
- Never use the charger unattended, if the charger has any abnormal function, please stop using it immediately and check the reason according to the manual.
- Make sure the charger is keep away from dust, moisture, rain and high temperatures, and avoid direct sunlight and strong vibrations; Place the charger on a heat-resistant, non-flammable and insulated surface. Do not place it on car seats, carpets, or other similar places.
- Please ensure that flammable and explosive materials are kept away from the operating area of the charger; Make sure you have a full understanding of the charging and discharging characteristics and specifications of the battery you are using and set the appropriate charging parameters in the charger. If the parameters are set incorrectly, it may cause damage to the charger and battery, and even catastrophic consequences such as fire and explosion.

- Before connecting the battery, please ensure that the battery voltage is consistent with the working voltage range of this product; During the working process, please ensure that the number of cells selected is consistent with the number of connected battery cells. During use, ensure that the product is kept away from heat sources and humid environments, and pay attention to ventilation and heat dissipation; This product will generate a lot of heat during the working process, do not let children operate it, so as not to burn; Disconnect and remove the battery as soon as possible after use.

NEVER USE CHARGER UNSUPERVISED

- Never attempt to charge primary (non-rechargeable) batteries.
- Batteries pose a severe risk of fire if not properly handled.
- Read entire operation manual before using charger.
- This unit may emit heat during use.
- 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.



WARNING!



FIRE HAZARD!

Specifications

Input Voltage: AC 100~240V

Charging Current: 0.1~5A

Max. Charge Power: 60W

Balance Current: 0.5A/Cell Max

Supported battery types and cell count: LiFe, LiHv; LiPo 1~4S, Pb 2~7S, NiMH/Cd 2~12S

Dimension: 88×85×38mm

Output Voltage: DC 5-18.5V

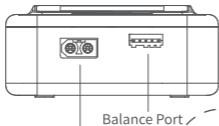
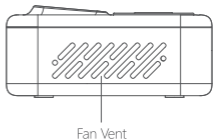
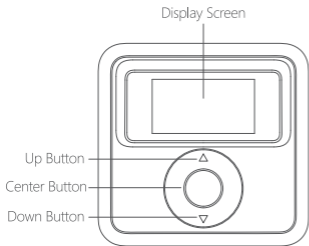
Discharging Current: 0.1~1A

Max. Discharge Power: 5W

User Temperature: 0~40°C

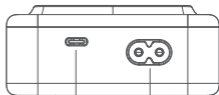
Weight: Approximately 150 g

Port / Buttons



Charging Port
(XT60)

Balance Port



Update Port

Power Input
(AC100-240V)

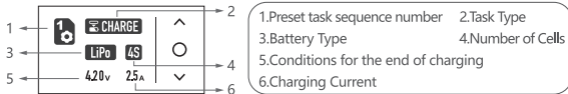
Key Operation

- In the task selection interface, long press the center button to enter the parameter modification mode, the modifiable parameters will flash;
- Short/long press the up/down button to modify the parameter value, short press the center button to switch to the next parameter for modification;
- Long press the center button to save and exit parameter modification mode;
- In the task selection interface short press the center button to start the current task, long press the up/down button to return to the main page;
- During the charging task, the charging current can be adjusted by short pressing the center button, and long pressing the center button ends the current task.

Operating the Charger

Before operating the charger, know your batteries specifications and any battery-specific safety warnings before operating.

- 1.Connect your included AC cord to the charger or appropriate power source to power your charger.
- 2.Connect the battery to the port on the front of your charger.
- 3.Connect the balance lead, make sure the balance lead is connected direct into the balance port. (Highly Recommended to not add additional balance board or there could be chances of misread the correct battery voltage.)
- 4.Short press center button once to enter the setting menu.
- 5.Long press center button to adjust your desire task and long press again to save.
- 6.Double check all connection from power sources to battery connections.
- 7.Press center button again to begin charging.



Preset Battery Type of Charger and Task Parameters

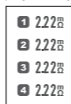
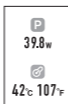
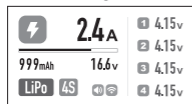
	Rated Voltage	Full Charge Voltage	Storage Voltage	Discharge Voltage	Balance Charge	Unbalanced Charge	Supported Cell Count	Max. Charging Current
NiCd/MH	1.20V	1.40V	✗	0.90V	✗	✓	2-12S	5A
Pb	2.00V	2.40V	✗	1.90V	✗	✓	2-7S	5A
LiFe	3.20V	3.65V	3.30V	2.90V	✓	✓	1-4S	5A
Lilon	3.60V	4.10V	3.70V	3.20V	✓	✓	1-4S	5A
LiPo	3.70V	4.20V	3.80V	3.30V	✓	✓	1-4S	5A
LiHv	3.80V	4.35V	3.85V	3.40V	✓	✓	1-4S	5A
ULiHv	3.90V	4.45V	3.90V	3.50V	✓	✓	1-4S	5A

Working Parameter display

During charging, you can read the battery information simply by pressing the up and down button. It will provide:

- 1.Charging Mode
- 2.Charging Current
- 3.Battery Voltage
- 4.Battery Charged Capacity
- 5.Total Charge Power
- 6.Internal resistance of each cell
- 7.Temperature
- 8.Buzzer status
- 9.Bluetooth connection status

Note: Cell Voltage and internal resistance are displayed only in balanced charging mode.



Wireless connection

Scan the QR code at the bottom to download and install ISD Link APP

1. Please turn on wireless communication and Bluetooth before opening the APP.
2. Open the APP and click the top right "+" sign to begin searching for your running device.
(Bring your phone close to the device for best connections)
3. Device will beep to indicate the connection.
4. Confirm the connection on your device.



App Download

*All product photos, statements and literature are for reference only. For up-to-date information, please visit our official web www.isdt.co

SHENZHEN ISD TECHNOLOGY CO. LTD

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