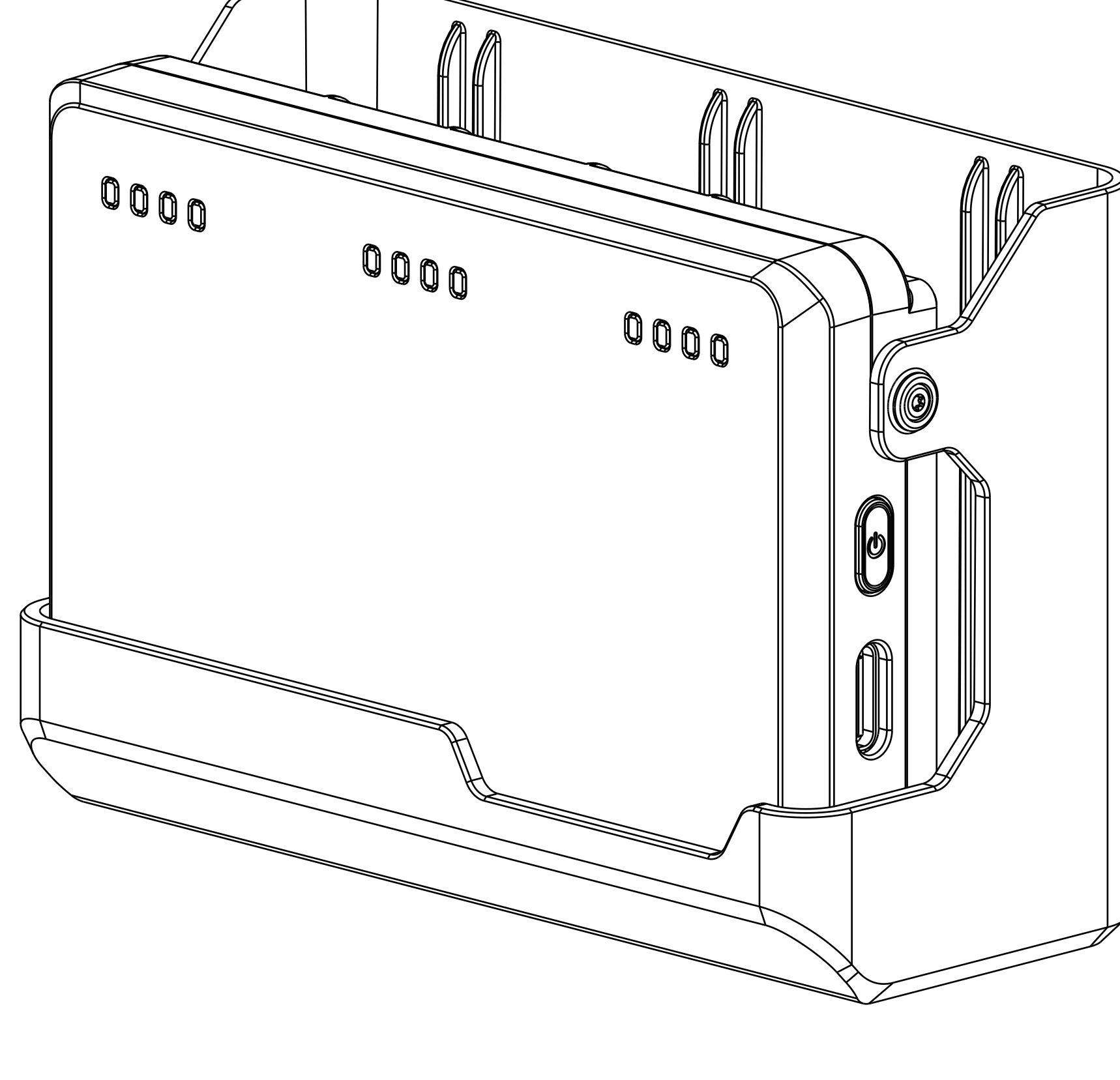


Caddx 2S Charger

Quick Start Guide

V1.0



Safety Notes

- Please read the following safety instructions carefully before using this product for the first time. Follow the instructions in the user manual strictly to ensure safety. Improper operation may cause serious injury to the user.
- Do not use the charger unattended. If any abnormal situation occurs, disconnect the power supply immediately.
- Keep the charger away from moisture and heat sources during use. Ensure proper ventilation and cooling, and keep it away from flammable materials.
- Ensure correct connection of the battery type. Incorrect selection may lead to accidents.
- Check the device for any damage before use. Do not use the device if it is damaged.
- Do not insert metal objects into any ports. This may cause device damage or injury to the user.
- This product is not a toy. Do not allow children to use it unsupervised.
- After use, disconnect the input power and remove the battery promptly.
- Do not attempt to charge non-rechargeable dry batteries.
- Do not disassemble the device without authorization. If the device is damaged and needs repair, please contact professional service personnel.

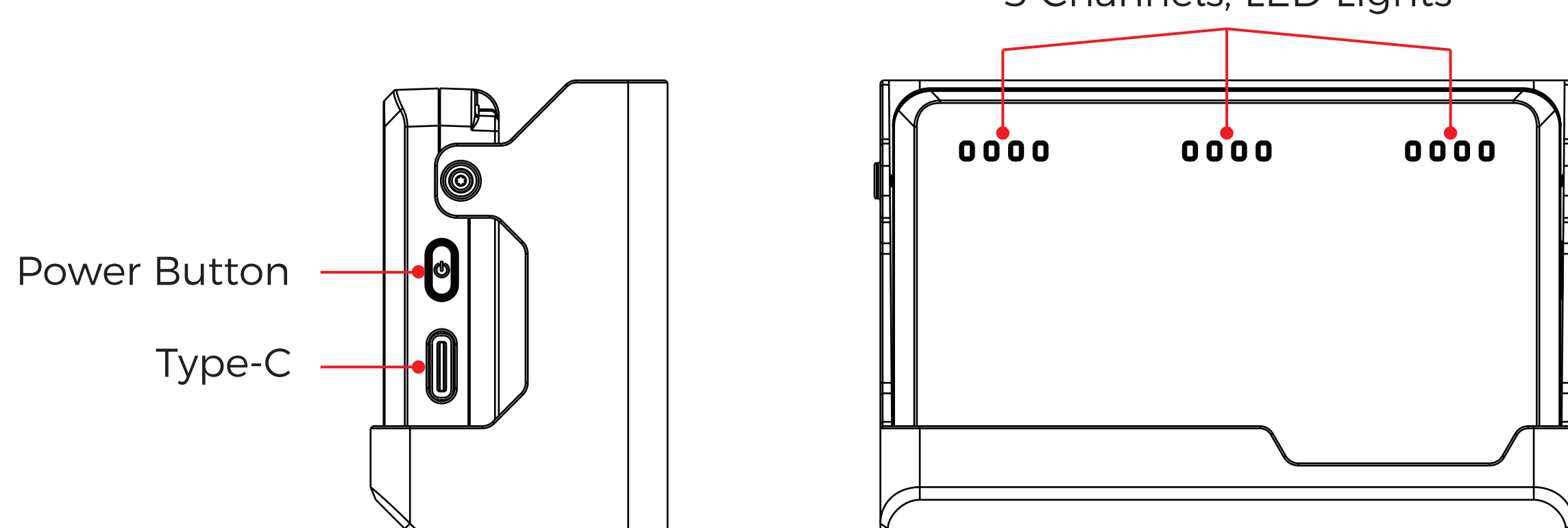
Product Description

The Caddx Protos 2S Charger is specifically designed to be compatible with the Caddx Protos 2S 840mAh battery, 2S battery packs, and charge/discharge modules. It features a simple design, easy operation, high charging efficiency, and a compact, lightweight build that makes it easy to carry.

Product Specifications

Model	Caddx 2S Charger
Display	LED*4
Channels	3 Channels (Sequential Charging)
Function Selection	Charging, Storage
Battery Type	Li-Hv 2S 840mAh Battery
Input Interface	Type-C
Input Voltage	12-15V (PD Input, 5V Adapters Not Supported)
Output Voltage	8.7V
Input Current	Max.3A
Charging Current	Max.3A
Balance Current	Max.0.21A
Charging Power	Max.25W
Discharge Power	Total Power: 5W (Max 1.6W per Channel)
Operating Temperature	-10-45°C
Storage Temperature	-20°C-60°C
Dimensions	94mm*63mm*39.1mm
Weight	65±0.5g

Product Construction



Safety Notes

1. Read and understand this manual before use.
2. Ensure the charger is used in a well-ventilated, dry environment.
3. Keep the charger away from water, fire, and high-temperature environments.
4. Do not disassemble or modify the charger.
5. This charger is only compatible with the Caddx Protos 2S 840mAh battery.

Operating Instructions

- **Powering On the Charger:**
After connecting to a USB-C power source, the four LED lights will blink three times simultaneously for a self-check. Then, the LED lights will display the software version number in binary (from left to right, with four lights for each of the three channels). For example, "1000, 0000, 1110" represents version 1.0.7. Finally, the LED lights will turn off, indicating that the charger has successfully powered on.
- **Connecting the Battery to Start Charging:**
The charger has three battery slots. When a battery is inserted into any of the slots, charging will begin immediately. The four LED lights will display the charging progress as follows:
 - 0-25%: All four LED lights will blink in a running pattern.
 - 25-50%: The first LED light will remain on, while the other three blink in a running pattern.
 - 50-75%: The first two LED lights will remain on, while the last two blink in a running pattern.
 - 75-100%: The first three LED lights will remain on, while the last one blinks in a running pattern.Fully Charged: All four LED lights will remain on, indicating that the battery is fully charged.
- **Connecting the Battery to Select Storage Mode:**
After powering on, when a battery is inserted, the device will default to charging mode. To enter Storage Mode, **long press the power button for 3 seconds until all the LED lights blink three times.** In storage mode, the LED light display will be the same as in the charging state:
 - 0-25%: All four LED lights will blink in a running pattern.
 - 25-50%: The first LED light will remain on, while the other three blink in a running pattern.
 - 50-75%: The first two LED lights will remain on, while the last two blink in a running pattern.
 - 75-100%: The first three LED lights will remain on, while the last one blinks in a running pattern.
- **Battery Reaches Storage Voltage:**
When the battery reaches the cutoff voltage for storage mode, the LED lights will display the battery's remaining percentage. For example, if the battery has 50% charge remaining, the first and second LED lights will remain on, while the third and fourth LED lights will be off.
- **Removing the Battery:**
After removing the battery, charging will stop immediately, and the four LED lights on the channel where the battery was inserted will turn off.
- **Button Instructions:**
The button is used solely to switch between storage mode and charging mode. When the device is powered on, it defaults to charging mode. Long press the power button for 3 seconds until all the LED lights blink three times, indicating that the device has entered storage mode. To switch back to charging mode, long press the power button for 3 seconds again, and all the LED lights will blink three times, indicating that the device has returned to charging mode. If this is not done, the device will remain in storage mode.

Error Indicators

- Troubleshooting:
1. Battery Expiration Error: All four LED lights will blink continuously.
 2. Cause Analysis: Common battery issues include:
 - Voltage difference between cells is too large (voltage difference > 350mV).
 - Battery voltage is below 2.5V.
 - Battery is not properly connected.
 3. Solution: Reconnect the battery correctly.

Firmware Upgrade

- Firmware Upgrade:
1. Open the software on the computer and connect one end of the USB-A to USB-C upgrade cable to the computer.
 2. Long press the power button on the charger, then insert the other end of the upgrade cable into the charger's USB-C port. The four middle LED lights will blink, indicating that the connection is successful.
 3. Click the "Upgrade" button in the firmware software on the computer. When the upgrade success message appears, the upgrade is complete.

Maintenance & Care

1. Keep the charger clean and free from dust.
2. When not in use, store the charger in a cool, dry place.

After-Sales Service & Warranty

Thank you for purchasing our charger. Caddx is committed to providing you with excellent after-sales service and fully protecting your rights. If your product malfunctions, please contact Caddx after-sales personnel.

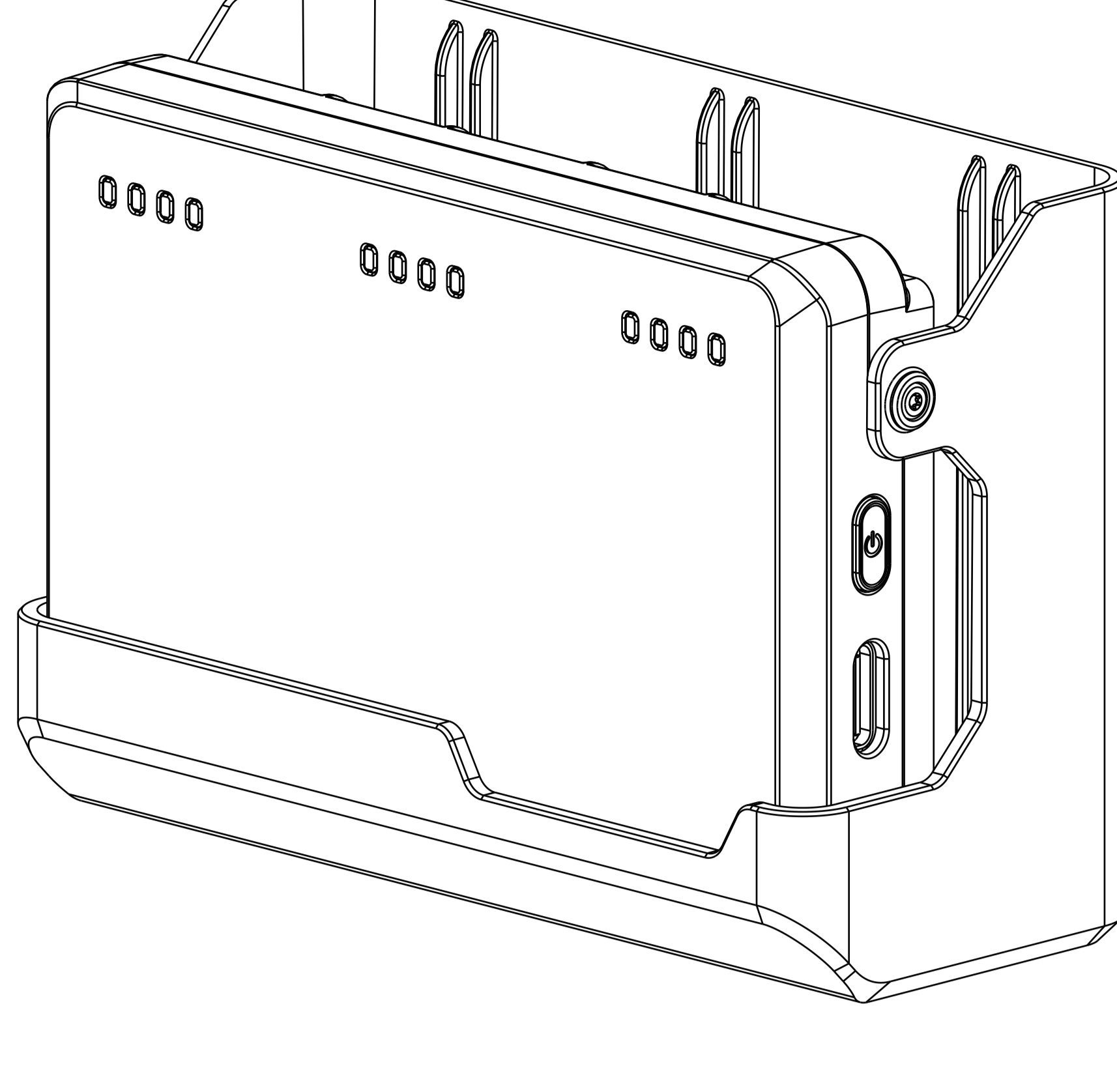
1. Warranty Expiration: The warranty expiration date for products with malfunctions is based on the date they arrive at the Caddx after-sales service center.
2. Free Warranty Within One Year: The warranty is free within one year from the date of purchase for any product quality issues. If the customer cannot provide valid proof of purchase, the internal date code will be used as the reference.
3. Post-Warranty Service: After one year from the date of purchase, cost-based fees may apply. Users are responsible for round-trip shipping costs.
4. Repair Contact Information: When sending in for repair, please ensure you leave your contact information so that we can notify you once the repair is completed.

- The following causes of damage are not covered by the warranty:
1. Damage caused by incorrect voltage input.
 2. Damage caused by improper use that does not follow the instructions in the manual.
 3. Damage caused by human error, accidental impact, or other force majeure factors.
 4. Unauthorized modifications, disassemblies, or alterations to the product's internal circuits without prior approval from the company.
 5. Damage caused by water immersion, moisture, or foreign objects entering the product.
 6. Aging, bumps, and scratches on the surface of the product's outer casing.
- Please Note: Correct usage is essential. The user is responsible for any consequences caused by improper operation. The company is not liable for any costs beyond the product's value and reserves the right to modify these terms without prior notice.

Caddx 2S Charger

使用说明

V1.0



安全须知

- 初次使用本产品，请阅读完以下安全须知，请严格按照说明书的提示操作以确保安全，不当操作可能导致使用者受到严重伤害；
- 切勿在无人看管下使用充电器，如果有任何异常，请立刻切断电源；
- 使用过程中确保充电器远离潮湿环境以及热源请注意通风散热，远离易燃物品；
- 请正确连接电池类型，错误的选择可能导致意外；
- 使用前请先检查设备是否有破损等情况，设备在受损情况下禁止使用；
- 切勿将金属杂物置入各接口中，否则引起设备损坏或对使用者造成伤害；
- 本产品不是玩具，切勿让儿童单独使用；
- 使用结束后，应尽快断开输入电源并及时移除电池；
- 请勿试充不可充电的干电池；
- 请勿擅自拆卸设备，若设备受损需要维修，请联系专业维修人员。

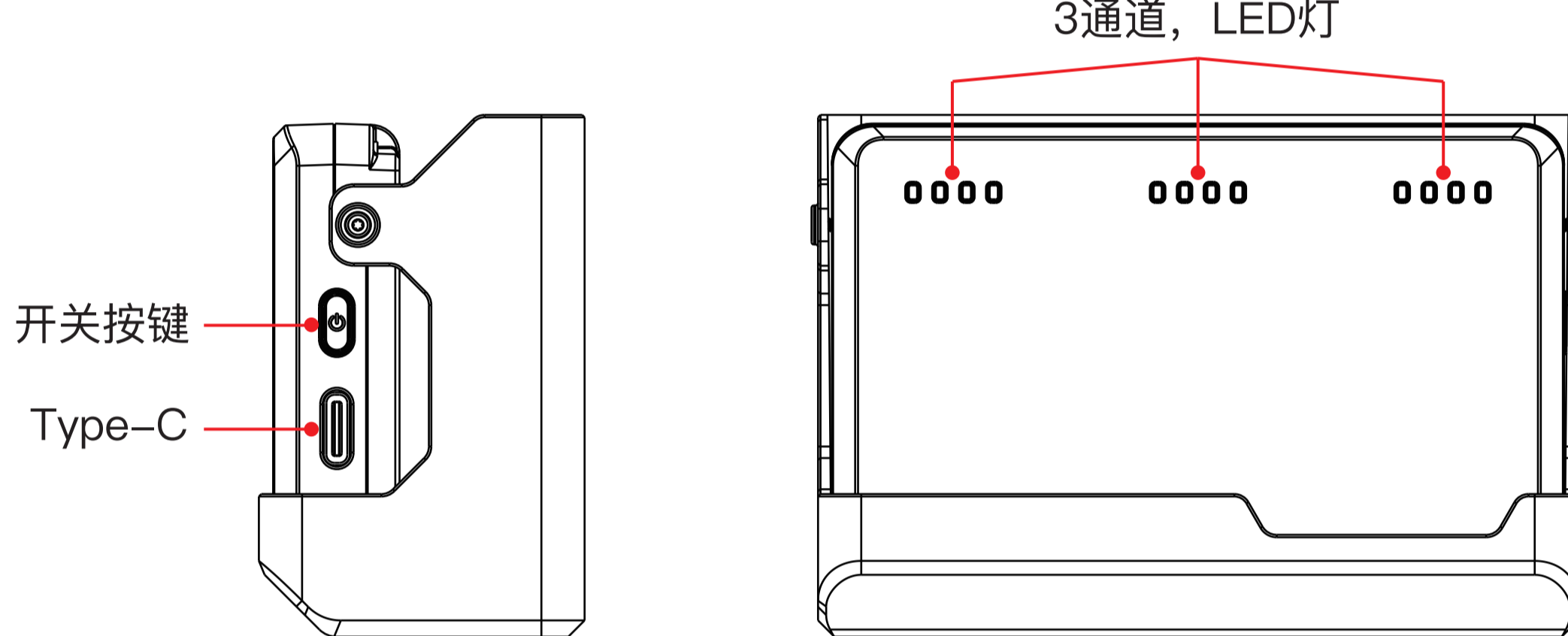
产品说明

Caddx Protos 2s 充电器专为适配与Caddx Protos 2S 840mAh电池产品，2s 电池组 + 充放电模块而设计。功能简单，操作便捷，充电效率高，小巧精致易携带的特点。

产品规格

型号	Caddx 2S Charger	输入电压	12-15V (PD输入, 不支持5V适配器)
显示	LED*4	输出电压	8.7V
通道	3 (排队充)	输入电流	Max.3A
功能选择	充电、储存	充电电流	Max.3A
电池类型	Li-Hv 2S 840mAh 电池	平衡电流	Max.0.21A
输入接口	Type-C	充电功率	Max.25W
工作温度	-10-45°C	放电功率	总功率5W (每通道Max1.6W)
储存温度	-20°C-60°C	重量	65±0.5g
尺寸	94mm*63mm*39.1mm		

产品结构



安全注意事项

- 1.使用前请阅读并理解本手册。
- 2.确保充电器在通风良好、干燥的环境中使用。
- 3.使充电器远离水、火和高温环境。
- 4.请勿拆卸或改装充电器。
- 5.该充电器仅支持Caddx Protos 2S 840mAh电池

操作说明

- **充电器上电：**
接入USB-C电源后，四个LED灯同时闪烁三次进行自检。随后，LED灯按2进制显示软件版本号（从左到右，三个通道各四灯），例如“1000, 0000, 1110”代表1.0.7版本。最终，LED灯熄灭，表示充电器已成功通电。
- **接入电池开始充电：**
充电器设有三个电池仓位，任意一个仓位插入电池后，该仓位将立即开始充电。四个LED灯根据充电百分比显示状态：
 - 0-25%：四个LED灯以跑马灯形式闪烁。
 - 25-50%：第一个LED灯常亮，其余三个灯以跑马灯形式闪烁。
 - 50-75%：前两个LED灯常亮，后两个灯以跑马灯形式闪烁。
 - 75-100%：前三个LED灯常亮，最后一个灯以跑马灯形式闪烁。
 - 充满电：四个LED灯常亮，表示电池已充满
- **接入电池选择储存功能：**
开机后接入电池时，设备默认为充电状态。长按电源键3秒**所有灯闪烁3次**进入存储模式。此时，LED灯的显示状态与充电状态相同：
 - 0-25%：四个LED灯以跑马灯形式闪烁。
 - 25-50%：第一个LED灯常亮，其余三个灯以跑马灯形式闪烁。
 - 50-75%：前两个LED灯常亮，后两个灯以跑马灯形式闪烁。
 - 75-100%：前三个LED灯常亮，最后一个灯以跑马灯形式闪烁。
- **电池到达储存电压：**
当电池电量达到储存功能的截止电压时，LED灯将显示电池电量百分比，电池剩余电量为50%，则第一个和第二个灯常亮，第三和第四个灯不亮。
- **拔出电池：**
拔出电池后，充电将立即停止，电池所在通道的4个LED灯熄灭。
- **按键说明：**
按键仅用于切换存储模式。设备开机时默认为充电状态，长按电源键3秒后，所有灯闪烁3次，即表示进入存储模式。若需切换回充电模式，请再次长按电源键3秒，所有LED灯闪烁3次，即表示回到充电模式，否则设备将保持在存储状态。

故障提示

故障排除

- 1.检测电池异常：四个LED灯同时一直闪烁；
- 2.原因分析：常见的电池异常包含 电池压差过大（电池压差 > 350mv），电池的电压低于 2.5V，未正确连接电池；
- 3.解决方案：重新正确连接电池。

固件升级

固件升级

- 1.电脑打开软件，用USB-AtoC升级线一端连接电脑；
- 2.长按充电器按键后，充电器C口插入升级线的另一端，此时充电器中间四个灯闪烁表示连接ok；
- 3.点击电脑固件“升级”，显示升级成功即代表ok。

维护保养

- 1.保持充电器清洁、无灰尘。
- 2.不使用时，请将充电器存放在阴凉、干燥的地方。

售后与保修

感谢您购买本公司的充电器，Caddx将竭尽全力为您提供完善的售后服务，全面维护您的权益,如果您的产品出现故障,请于Caddx售后人员联系。

- 1.产品出现故障后的保修截止日期以送达Caddx售后服务中心为准；
- 2.自购买之日起一年内因产品本身质量问题，所以保修都是免费的，如果客户无法提供有效购买凭证，将以其内部的日期码为准；
- 3.自购买之日起超过一年期限，将酌情收取成本费用，用户需自行承担来回运输费用；
- 4.在您送修时，请务必留下您的联系方式，以便维修后能够及时通知您；

下列原因造成产品损坏不能正常使用,不在保修范围内:

- 1.未按要求接入正确电压导致产品损坏的；
- 2.未按照说明书正确使用造成的损坏；
- 3.一切人为、意外撞击或其他不可抗力导致产品损坏的；
- 4.未经本公司认可、擅自改装、拆卸或修改本产品的内部电路；
- 5.水浸、受潮或其他异物进入产品内部造成损坏的；
- 6.产品表面外壳的老化,碰伤及划痕。

请注意正确使用: 用户须承担因操作导致的任何后果, 本公司不负责超过产品成本以外的费用并保留对此条款修改的权利;如有修改,恕不另行通知。