

Please read this manual carefully before using the product  
and keep it properly for future reference.



# CCS2-GBT V2.0\_DC Adapter

User Manual



Test Report No.: HUAX25O721514KR

Test Report No.: HUAX25O721515KR

Design Standard: GB/T 20234.3 & IEC 62196-3

# Preface

Important Notice: Please read this manual carefully before first use and keep it properly for future reference.

Caution: 

- Please read all safety instructions before use!
- Only for charging GBT standard electric vehicles in European standard charging station
- The charging port location varies by vehicle model. Please refer to your GB-compliant vehicle's user manual for the charging port position and more detailed charging instructions.
- Keep this user manual properly for future reference.

Note: The illustrations and dimensions in this document are for reference only. Due to product upgrades and improvements, changes may occur without prior notice. Please stay updated with our latest product information.

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## 3.Safety Instructions

### 3.1 Safety Precautions

- To ensure safe operation and prevent potential injury or property damage, strictly adhere to the following safety guidelines.
- Please follow safety instructions to avoid the wrong operation, and damage event.

 Warning, Indicates safety precautions that may lead to death or serious injury.

 Note, Indicates the content of **【Friendly Reminder】**

 Caution, Indicates safety precautions that may lead to minor injury or property damage.

### 3.2 Key Safety Precautions

#### Keep away from Flammable Materials

Keep the product away from flammable, explosive, or any other fire-prone materials to prevent damage, fire hazards, or personal injury.

#### Keep away from children

Do not allow children to operate or use this product. Ensure it is not treated as a toy. Keep out of touching by children.

#### Do not modify or alter this product

Stop using the adapter once the connect head or any component defected, and send it to the appointed shop for repairing or exchange.

⚠ Do not exceed maximum load capacity

Use this product strictly within the specified current-carrying parameters. Overloading is prohibited

⚠ Dirt treatment

Use a dry cloth for cleaning to avoid potential poor contact

💡 Storage: store the product in a cool and dry environment

## 4.Product Introduction

### 4.1Product Appearance (as shown in Diagram 1)

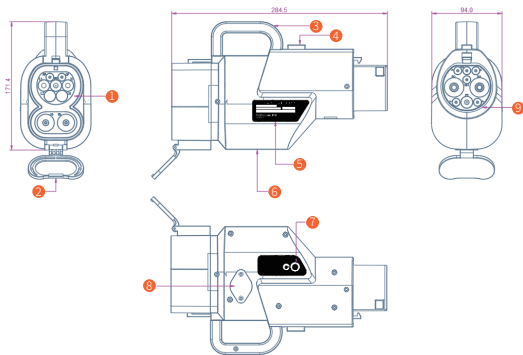


Diagram 1

| S/N | Name                                  | Function                                                    |
|-----|---------------------------------------|-------------------------------------------------------------|
| 1   | CCS2 European Standard Vehicle Socket | Connect the CCS2 European-standard charging gun             |
| 2   | Dust Cover                            | Dustproof                                                   |
| 3   | Handle                                | Handle                                                      |
| 4   | Metal Hook                            | Locks the adapter to both the vehicle port and charging gun |
| 5   | Product Labeling                      | Product Model & Key Specifications Labeling                 |
| 6   | Main Body                             | /                                                           |
| 7   | LED Switch                            | Press the switch to start the device                        |
| 8   | Built-in Battery Cover                | Mounted battery                                             |
| 9   | GB/T Standard charging head           | Connect to the GB/T-standard vehicle-side interface         |

## 4.2 Product Parameters

|                                      |                                                                                                                        |
|--------------------------------------|------------------------------------------------------------------------------------------------------------------------|
| Rated Voltage                        | 1000VDC                                                                                                                |
| Rated Current                        | 400A(MAX)                                                                                                              |
| Insulation Resistance                | >100M $\Omega$                                                                                                         |
| Contact Resistance                   | $\leq 0.5\text{m}\Omega$                                                                                               |
| Ingress Protection (IP)              | IP54 (After coupling)                                                                                                  |
| Terminal Temperature Rise            | <50K                                                                                                                   |
| Coupling Insertion /Extraction Force | <140N                                                                                                                  |
| Mechanical Durability                | No-load mating cycles >10,000 times                                                                                    |
| Working environment Temperature      | -30°C to +50°C (with built-in temperature protection: device automatically shuts down when adapter body reaching 85°C) |
| Enclosure                            | Silicone PC / PA66 + 25% GF                                                                                            |
| Conductor                            | T2 Purple Copper, Silver-Plated                                                                                        |
| Net Weight                           | 2344.9 $\pm$ 10g                                                                                                       |
| Dimensions                           | 284.5x94.0x171.4mm(L×W×H)                                                                                              |

## 4.3 Applications

Charge a GB/T-standard vehicle using a European charging station.

## 5. Operating Instructions

### 5.1 Charging Procedure: Adapter (This Device) Connection (As shown in Diagram 2)

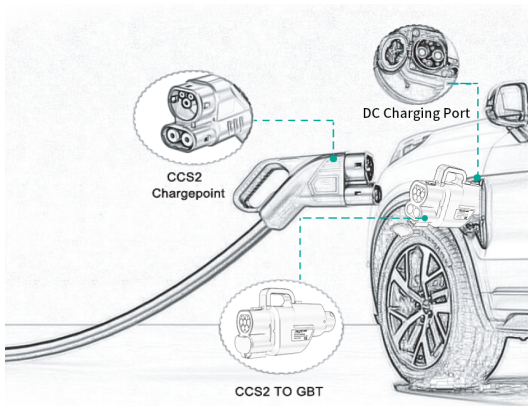


Diagram 2

- 5.1.1 Ensure the vehicle is in park. Then open the charging port cover on the vehicle.
- 5.1.2 The GB/T adapter shall be fully inserted until the locking mechanism engages.
- 5.1.3 Connect the European-standard charging gun to the adapter (check the adapter's hook lock status).
- 5.1.4 Activate the switch on the adapter – the indicator light will blink, awaiting communication.
- 5.1.5 Check the European-standard charging station's display for the "Connected" prompt, then follow the on-screen instructions to initiate charging.

**5.1.6** Safety is the most important – always follow precautions when using charging equipment to prevent accidents or damage to your vehicle/charging station

- 💡 The operation of European-standard charging stations may vary upon the brand and model;
- 💡 Charging speed depends on the available voltage and current from the charging station. Various factors may affect charging duration, including the vehicle's battery temperature: excessively high or low battery temperatures may limit charging current or even prevent charging initiation. The vehicle will automatically warm up or cool down the power battery before permitting charging. For detailed charging performance parameters, please refer to the official website of your GB/T-compliant vehicle manufacturer.

## **5.2** Built-in Battery Removal and Installation Procedure

**5.2.1** Required Tools: Phillips screwdriver (size: 4.0); 18650 battery (with protruding positive pole).

**5.2.2** Use the Phillips screwdriver to remove the screws securing the battery compartment cover. (As shown in Diagram 3)

**5.2.3** Place the battery into the battery compartment, ensuring the positive terminal (the protruding end) faces outward. (As shown in Diagram 4.)



Diagram 3

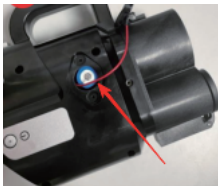


Diagram 4

⚠ Avoid pulling the battery wires forcefully, as this may affect the battery's functions.

5.2.4 Gently tuck the connecting wires into the battery compartment, then close the cover.

5.2.5 First press the battery cover firmly by hand to ensure secure fastening and prevent any risk of dislodgment. Then turn on the power switch to check for electrical output. If power is present, you may proceed with screw installation. If no power is detected, the battery needs to be charged before continuing.

### 5.3 Built-in Battery Charging Procedure

5.3.1 Insert the Type-C male plug of the charging cable into the Type-C female port at the bottom of the adapter body (as shown in Diagram 5). Charging requires: 5V voltage, 1-2A current; charging duration is approximately 15 hours.

5.3.2 During charging, the indicator light remains on; it turns off when the battery is fully charged.

5.3.3 Alternatively, the battery may be removed and charged using a compatible battery charger (Battery specifications: 18650, capacity: 3350mAh).



Diagram 5

⚠ When the LED fails to blink normally upon pressing the switch, it indicates low battery power and requires charging.

## 5.4 Charging Error (Take out logs)

### 5.4.1 Prepare an empty USB flash drive.

5.4.2 Insert the USB drive into the USB cable, then connect the Type-C end of the cable to the port at the bottom of the adapter body (as shown in Diagram 6). Press the power button - the indicator will blink for 2 seconds before turning off automatically, indicating successful download of the latest charging log file. Finally, disconnect the USB cable and remove the USB drive.

5.4.3 Insert the USB flash drive into the computer and compress the log files. Then, email the compressed log files to the local agent or manufacturer for analysis.

**5.4.4** Upon completion of the issue analysis, the local agent or manufacturer will provide updated log files. After receiving them, proceed with the product upgrade following the instructions in section 5.5.

## 5.5 Firmware Upgrade Instructions

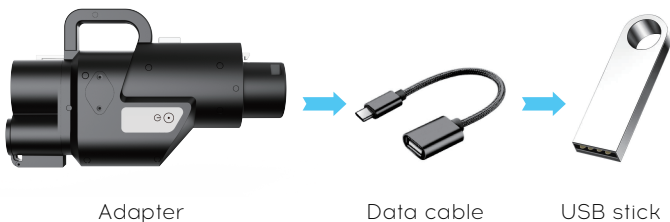


Diagram 6

**5.5.1** Format the USB flash drive to delete all files.

**5.5.2** After receiving the upgrade file, extract it and move the decompressed file to the USB drive. Do not rename the file during this process (file extension: .UPG).

**5.5.3** Insert the USB flash drive containing the upgrade file into the USB data cable, then connect the Type-C end of the cable to the port at the bottom of the adapter body (as shown in Diagram 6). Press the power button, and the indicator light will blink for approximately 10 seconds before turning off automatically.

**5.5.4** Remove the USB drive, then press the power button again. The indicator will blink for approximately 10 seconds before turning off automatically, indicating successful upgrade completion.

## 6.Packing List

| S/N | Name                      | Specifications and Models                                          | Quantity |
|-----|---------------------------|--------------------------------------------------------------------|----------|
| 1   | Adapter                   | CCS2-GB/T V2.0 (DC)                                                | 1PCS     |
| 2   | Charging Cable            | USB-A/M To TYPE-C/M                                                | 1PCS     |
| 3   | Data Cable                | USB-A/F To TYPE-C/M                                                | 1PCS     |
| 4   | USB Stick                 | 1GB USB 2.0 Flash Drive, Metal Casing (39.0×12.2×5.0mm)            | 1PCS     |
| 5   | Battery                   | 18650 3.7V 3350mAh Battery (Button Top / Positive Pole Protruding) | 1PCS     |
| 6   | Screwdriver               | 4.0×40mm Phillips Screwdriver, Black, Total Length: 100mm          | 1PCS     |
| 7   | User Manual               | CCS2-GB/T V2.0 (DC) User Manual                                    | 1PCS     |
| 8   | Certificate of Compliance | Certificate of Compliance                                          | 1PCS     |

## 7.Service Commitment

If the product malfunctions, please contact our company or the local authorized distributor. This product comes with a one-year warranty covering the entire unit.

The following circumstances are excluded from warranty coverage:

- 1.Damage caused by improper handling, operation, storage, maintenance, or human error.
- 2.Damage resulting from repairs performed by unauthorized service providers or unauthorized disassembly/repair by the user.
- 3.Damage caused by force majeure.
- 4.Damage occurring after the warranty period has expired.

使用产品前请仔细阅读本说明书，并妥善保管。



# CCS2-GBT V2.0\_DC Adapter

欧标转国标V2适配器

用户手册



测试报告编号：HUAX250721514KR

测试报告编号：HUAX250721515KR

设计标准：GB/T 20234.3 & IEC 62196-3

# 前言

重要提示：在首次使用本产品前，请仔细阅读并妥善保管本说明书

安全警告：

- 请在使用前阅读所有安全说明！
- 仅用于连接欧标直流充电桩给国标车直流充电。
- 充电端口的位置因车辆型号而异。请参考您的国标车辆的用户手册，了解充电端口的位置和更详细的充电说明。
- 请妥善保管使用说明书以供日后参考。

说明：本文中的配图尺寸等仅供参考，因产品升级换代产生的更改，恕不另行通行，请及时关注我司的产品动态信息。

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### 3.安全事项说明

#### 3.1 安全提示

- 为保证使用安全，避免对您和他人造成伤害和财产损失，请您务必遵守以下安全事项。
- 不遵守安全警告而错误使用可能导致事故发生。

 警告 表示可能会导致死亡或重伤的安全事项

 表示【温馨提示】的内容

 注意 表示可能会导致轻伤或财产损害的安全事项

#### 3.2重点安全注意事项

##### 禁止易燃物品

禁止将产品放置在太靠近易燃易爆等其他易产生火源的地方，以免产品受损或引起火灾和人身伤害。

##### 禁止儿童操作

请勿让儿童操作使用，确保不会将产品当成玩具，请将产品放置儿童接触不到的地方。

##### 请勿自行改造

如插头或其他零件损坏时，必须停止使用本产品，并到指定维修点，请专业人士更换或维修，以免引起伤害。

##### 禁止超负荷使用

请按参数要求的载流范围内使用本产品，不得超载使用。

##### 脏污处理

应使用干布进行处理，避免可能发生的接触不良。

 保存不用时，应将产品放置于阴凉干燥的环境中。

## 4.产品简介

### 4.1产品外观（如图1所示）

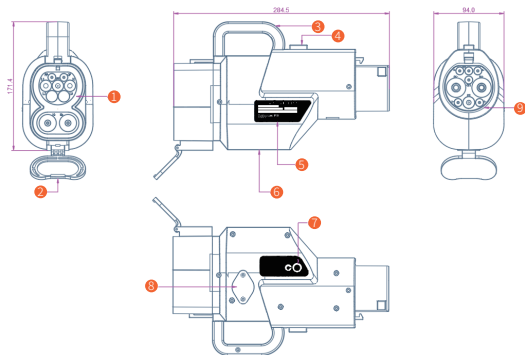


图1

| 序号 | 名称          | 功能                |
|----|-------------|-------------------|
| 1  | CCS2 欧标车座接口 | 连接CCS2欧标充电枪       |
| 2  | 防尘盖         | 防尘                |
| 3  | 提手          | 提手                |
| 4  | 金属挂钩        | 使产品与汽车端以及充电枪端进行锁止 |
| 5  | 产品标示        | 产品型号和关键参数信息标示     |
| 6  | 主体          | /                 |
| 7  | LED开关       | 按下开关，启动设备         |
| 8  | 内置电池安装盖     | 固定电池              |
| 9  | GB/T 国标枪端插头 | 连接GB/T标准车端接口      |

## 4.2 产品参数

|        |                                                                                             |
|--------|---------------------------------------------------------------------------------------------|
| 额定电压   | 1000VDC                                                                                     |
| 额定电流   | 400A(MAX)                                                                                   |
| 绝缘电阻   | $>100\text{M}\Omega$                                                                        |
| 接触电阻   | $\leq 0.5\text{m}\Omega$                                                                    |
| 防护等级   | IP54(耦合后)                                                                                   |
| 端子温升   | $<50\text{K}$                                                                               |
| 耦合插拔力  | $<140\text{N}$                                                                              |
| 机械寿命   | 空载插拔 $>10000$ 次                                                                             |
| 工作环境温度 | $-30^{\circ}\text{C}\sim+50^{\circ}\text{C}$ (内设有温度保护装置, 产品温度达到 $85^{\circ}\text{C}$ 即停止工作) |
| 外壳     | 硅PC/PA66+25%GF                                                                              |
| 导体     | 紫铜T2, 表面镀银                                                                                  |
| 产品净重   | $2344.9\pm 10\text{g}$                                                                      |
| 产品尺寸   | $284.5\times 94.0\times 171.4\text{mm}$ (长 $\times$ 宽 $\times$ 高)                           |

## 4.3 使用场景

连接欧标充电桩对国标车充电

## 5.操作说明

### 5.1适配器（本设备）连接充电操作方式（如图2所示）

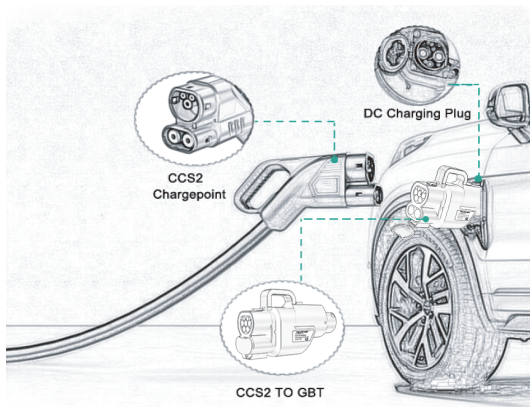


图2

5.1.1 确保车辆处于驻车状态。接着打开车辆上的充电盖。

5.1.2 将适配器国标枪端接口插入您的国标车辆接口（检查适配器挂钩锁止状态）。

5.1.3 将欧标充电桩的充电枪连接到适配器CCS2标准车端接口（检查适配器挂钩锁止状态）。

5.1.4 启动适配器上的开关, 此时指示灯闪烁等待交互。

5.1.5 观察欧标充电桩显示屏显示“已插入”，而后按照欧标充电桩界面上的指示启动充电过程。

5.1.6 安全至关重要，因此在使用充电设备时始终遵守必要的预防措施，以防止事故或对您的车辆或充电桩造成损坏。

- 💡 欧标充电桩的操作将取决于不同的充电桩品牌和型号；
- 💡 充电时间取决于充电桩的可用电压和电流。受多种因素影响，充电时间也可能受到车辆电池温度的影响：电池温度过高或过低可能会限制充电电流，甚至不允许充电启动。车辆将在允许充电之前对动力电池进行加热或冷却。有关充电性能参数的详细信息，请参考您购买的国标车辆的官方网站。

## 5.2 内置电池拆装操作方式

5.2.1 所需工具: 十字螺丝刀（尺寸：4.0）; 18650 电池（正极凸出）。

5.2.2 使用十字螺丝刀拧下固定电池仓上盖的螺丝。（如图3所示）

5.2.3 将电池放入电池仓，确保正极（凸起的一端）朝外。（如图4所示）。



图3

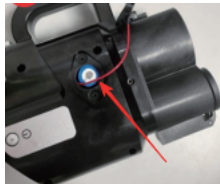


图4

⚠ 避免大力拉扯电池连接线，这可能会影响电池的正常功能

5.2.4将连接线慢慢装入电池仓，然后用电池盖盖住。

5.2.5先用手按下电池盖以确保其固定，防止任何脱落风险。打开开关并检查是否有电。如果有电，可以继续安装螺丝。如果没有，则需给电池充电。

### 5.3内置电池充电操作方式

5.3.1将电池充电线的Type-C公头插入适配器主体下方Type-C母座接口（如图5所示），充电电源要求：电压为 5V，电流为 1-2A；充电时长约 15小时。

5.3.2 电池充电时，指示灯常亮，充满后指示灯灭。

5.3.3 也可将电池取出，使用符合电池充电参数的电池充电器进行充电（电池规格：18650；电池容量：3350mAh）



图5

⚠ 按下LED开关时，LED无法正常闪烁，此时即判断电池电量不足，需给电池充电

## 5.4 充电异常（日志文件提取）

### 5.4.1 准备一个空的 USB U 盘。

5.4.2 将U盘插入USB数据线，将数据线Type-C接口插入适配器主体下方接口（如图6所示）然后按下电源开关，指示灯将闪烁2秒，然后自动关闭，最后一次充电状态日志文件已成功下载，拔下USB数据线，取出U盘。

5.4.3 将U盘插入计算机并压缩日志文件。通过电子邮件将压缩的日志文件发送给本地代理或厂家进行分析。

5.4.4 问题分析完成后，将由本地代理或厂家提供新的日志文件，收到后按‘5.5’操作方式对产品进行升级。

## 5.5 版本升级操作方式

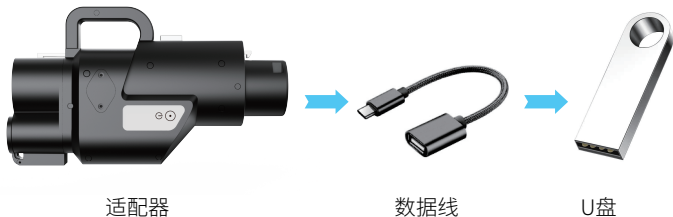


图6

### 5.5.1 清空U盘，删除所有文件。

5.5.2 收到升级文件后，解压并将解压后的升级文件移至U盘，期间不得更换文件名（文件后缀为：UPG）。

5.5.3 将储存好升级文件的U盘插入USB数据线，将数据线Type-C接口插入适配器主体下方接口（如图6所示），按下电源按钮，指示灯将闪烁约10秒后自动关闭。

5.5.4 拔出U盘，再次按下电源按钮，指示灯将再次闪烁约10秒后自动关闭，此时完成升级。

## 6.出厂配件清单

| 序号 | 名称  | 规格型号                                 | 数量   |
|----|-----|--------------------------------------|------|
| 1  | 适配器 | CCS2-GB/T V2.0 (DC)                  | 1PCS |
| 2  | 充电线 | USB-A/M To TYPE-C/M                  | 1PCS |
| 3  | 数据线 | USB-A/F To TYPE-C/M                  | 1PCS |
| 4  | U盘  | 1G内存U盘USB2.0接口，金属材质（39.0*12.2*5.0mm） | 1PCS |
| 5  | 电池  | 18650-3.7V-3350 毫安电池（正极凸起）           | 1PCS |
| 6  | 螺丝刀 | 4.0*40mm 十字型螺丝刀黑色，总长:100mm           | 1PCS |
| 7  | 说明书 | CCS2-GB/T V2.0 (DC) 使用说明书            | 1PCS |
| 8  | 合格证 | 合格证                                  | 1PCS |

## 7.服务承诺

产品如有故障，请与本公司或当地代理商联系；本产品实行整机一年保修期。

凡属下列情况之一的，不属保修范围

- 1.用户搬运、使用、保管、维护不当而损坏，或人为损坏；
- 2.经非本公司指定维修部维修，或用户自行拆装、维修；
- 3.因不可抗力造成损坏；
- 4.超出保修期限。