BILADAPTER.NO

CCS-to-CHAdeMO adapter

User Manual (English)



ELECTWAY®

CHAdeMO

CHAdeMO Association members

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INTRODUCTION

Thank you for purchasing a CCS-to-CHAdeMO adapter from Biladapter.no. A quick-start guide for the charging procedure is located on the back of this manual for rapid access when you need to charge. However, we recommend reading through this entire manual before first use.

NOTE

This adapter operates with high voltage and current and must be handled with care. See the technical specifications on page 9.

INTENDED USE

This adapter is designed for vehicles using CHAdeMO for fast charging. It lets you connect to the expanding network of CCS stations, which have become the current industry standard. Depending on your vehicle model and battery pack, you may even achieve higher charging speeds than when using a CHAdeMO plug alone. Be sure to follow the charging steps in the exact order presented; otherwise, charging may not initiate. For troubleshooting, refer to the dedicated section later in this manual.



CHARGING THE ADAPTER´S INTERNAL BATTERY

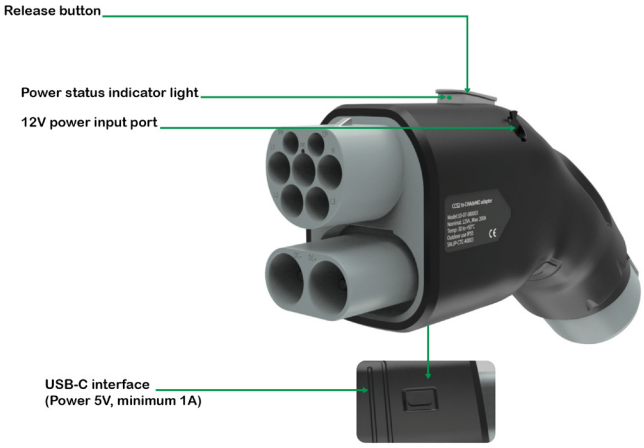
This adapter contains a built-in controller that enables communication between the CHAdeMO and CCS charging systems. To power this, the adapter is equipped with its own internal battery, which arrives partially charged from the factory. Nonetheless, it is recommended to fully charge the adapter before initial use.

TIP: If the adapter will not be used for several months, we recommend performing a maintenance charge to preserve battery health.

METHODS FOR CHARGING THE INTERNAL BATTERY

The adapter's internal battery can be charged by any of the following three methods:

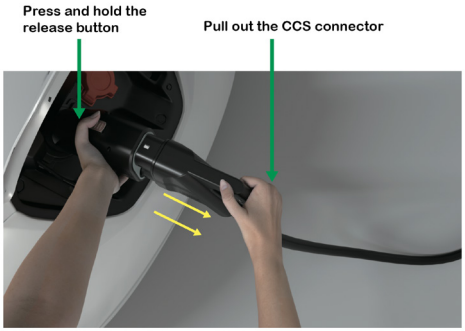
- **Automatic charging via fast-charger connection.** Whenever the adapter is connected to a fast-charging station and vehicle charging is in progress, the internal battery will be charged automatically. If you frequently use the adapter for long charging sessions, this alone may be sufficient to keep its internal battery topped up.
- **USB-C charging**. Use the supplied USB-C multi cable or any other USB-C power cable and connect it to a USB power outlet or a power bank that provides a 5V output. When connected, a green LED will light up and then turn off during charging. Note that charging continues even if the LED is no longer lit. Charge for approximately 10 hours to reach full capacity.
- **12V vehicle socket charging.** If the adapter's battery is depleted when you need to fast-charge, you can use the included 12V power-adapter lead. Plug one end into your vehicle's 12V socket (formerly the "cigarette lighter") and the other end into the adapter's 12V input (see illustration). The 12V plug features a red on/off switch, make sure to turn it on so it illuminates. You may leave it connected during the charging session. **NOTE: For some cars, like the Nissan Leaf, you must single-press the vehicle´s START button to activate the 12V outlet (ACC - accessory power). Do not press twice as that will start up the dashboard and electronics.**



HOW TO USE THE ADAPTER TO CHARGE YOUR VEHICLE

A quick-start guide for the adapter is printed on the back of this booklet for easy reference. However, please read this section thoroughly to understand the correct procedure.

1. **Insert the adapter into your vehicle's CHAdeMO inlet**. Ensure it "clicks" firmly into place. On some vehicles, you must switch off the car (including the instrument panel) before beginning the charging process; do so if required by your model.
2. **Take the CCS charging plug from the fast-charger and insert it into the adapter's CCS inlet**, making sure it locks securely. Once connected, the green LED beneath the adapter's unlock button will light and begin blinking, indicating that the connection process has started. Verify that the charging cable is not under tension to avoid undue stress on both the adapter and the vehicle's socket.
3. **Follow the fast-charger's activation procedure**. When charging has successfully begun, the green LED will remain steadily on. **Important:** You must initiate the charging sequence within 90 seconds of inserting the CCS cable; otherwise, the adapter will time out, shut off, and charging will fail. If this occurs, disconnect everything and restart the procedure.
4. **End Charging.** When your vehicle's battery has reached the desired charge level, terminate the session according to the fast-charger's instructions or via your vehicle's onboard system. After charging ends, press and hold the adapter's release button while gently pulling out the CCS cable (see illustration). Finally, press the release button again as you remove the adapter from the vehicle's CHAdeMO inlet.



TROUBLESHOOTING

If charging does not start, check the following:

The green LED on the adapter should remain steadily lit during charging. If it only blinks and / or goes out, the charging process has failed. Possible causes include:

- **Poor connection:** The adapter is not fully seated in the vehicle's CHAdeMO inlet, or the CCS cable is not properly inserted into the adapter.
- **Timeout during handshake:** You may have taken too long between inserting the CCS plug into the adapter and initiating the charging sequence. If the adapter's green LED stops blinking before charging begins (i.e., more than 90 seconds have elapsed), the adapter will shut down and charging will abort. In this case, disconnect everything, then retry. You can also try starting the charging session at the station before inserting the CCS plug into the adapter (i.e., swap steps 2 and 3 in the connection procedure).
- **Vehicle State of Charge (SOC)**: If your battery is already near full, the charger may refuse to start. Either your vehicle has set a set maximum charge limit (for example, 80 % or 90 %), or the station itself does not support fast-charging above a certain SOC.
- **Fast-charger error messages**: Inspect the station's display (or in the app) for any error codes or messages that offer clues. For instance, if you see something like "*Communication error with vehicle. Please retry,*" power-cycle your vehicle completely (turn it off and then on again) before attempting a new session (this only applies to cars that can remain ON during charging start, so NOT the Nissan Leaf). It can also help to try a different charging pedestal if one is available.
- **Station Compatibility & Firmware:** Occasionally a particular charger may not be fully compatible with the adapter—often due to a recent software update on the station that the adapter's firmware doesn't yet support. If you suspect this, please contact us by email (see page 10 for contact information), indicating the exact charging station you used. Providing a photo of the station's branding or control panel will help us identify it and advise you on any necessary adapter firmware update.

- **Adapter´s internal battery**: If the green LED does not light at all when you attempt to start charging—or if you hear a repeated “clicking” sound from the adapter—the adapter’s internal battery may be depleted. In this case, use the included 12V lead as described on page 4 to power the adapter before trying again.
- If the adapter still fails to operate, it may be defective. Please contact us for assistance (see page 10 for contact information).

IMPORTANT WHEN ROUTE PLANNING CHARGING STOPS

When planning a trip, always allow for the possibility that you may encounter a charging station that is malfunctioning or incompatible with the adapter. Although the adapter has been extensively tested worldwide by the manufacturer, occasional software updates by a charging-station operator may result in incompatibility until the adapter firmware is updated. **To avoid range anxiety, always plan for alternative charging stops along your route.**

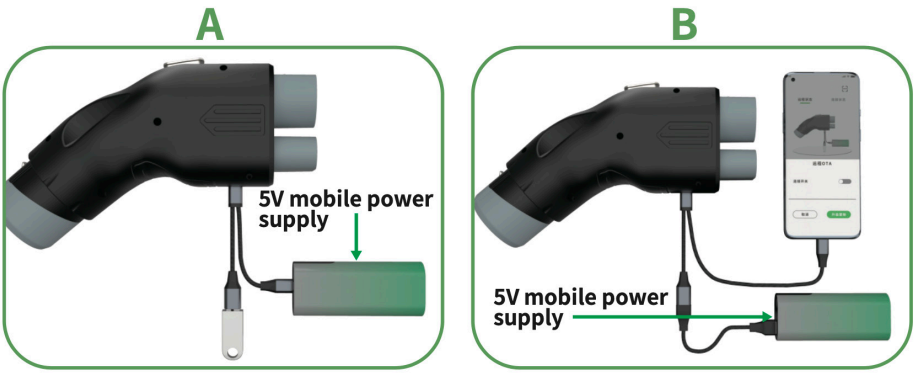
FIRMWARE UPDATES

From time to time, new software can be made available for the adapter—either in response to a reported issue or as part of routine compatibility and feature-enhancement releases from the manufacturer.
To obtain a new firmware, either reach out to us via email or visit our website (see page 10 for contact information)

To install a firmware update:
Copy the file **bin.bin** (exact filename, no alterations or added “(1)” suffix) to the root directory of the included USB thumb drive—do not place it in any subfolder.
Use the supplied three-ended cable: insert the thumb drive into the USB-A receptacle, and connect the USB-C female end to a 5V power source (USB wall charger or power bank).
Once both the thumb drive and the power are connected, plug the USB-C male cable into the adapter’s USB-C port on its underside (see **Figure A** on the next page). Watch the adapter’s LED: it will illuminate, then blink slowly while the firmware is transferred, followed by several rapid blinks to indicate completion.

After the final rapid blinks, wait at least 10 seconds before disconnecting the cable. (If the internal battery is charging while connected, the LED may light steadily after the update in stead of turning off)

Figure A uses a thumb drive for the firmware transfer.
Figure B shows update via a mobile device (planned as a future function)



LOG FILES

The same setup described above can be used to collect data from the charging station if the adapter is not compatible with a particular pedestal. This can speed up the manufacturer's release of a firmware update to enable the adapter to work with that station.

For detailed information on how to collect log files, send us an email or visit our website (see page 10 for contact information)

SPECIFICATIONS

Power	Rated 50 kW - Max. 100 kW
Voltage	Rated 500V - Max. 600V
Current	Rated 125A - Max. 250A
Protection Class	IP54 (when coupled with car & CCS)
Operating Temperature	-20°C- +45°C
Storage Temperature	-30°C - +50°C
Weight (net)	Approx. 2,3 kg
Dimensions (packing size)	350 x 270 x 130mm
Use environment	Outdoors

ENVIRONMENTAL AND SAFETY PRECAUTIONS

The adapter must not be used in heavy rain, snow or thunderstorms.
Avoid letting water run along the cable and onto the adapter.
Protect the adapter from water and spills.

Do not use the adapter if it shows any visible damage.

Do not try to remove or disconnect the adapter during fast charging.

If the adapter is dropped onto the ground, its sensitive electronic components may be damaged; in that case, have it inspected by your dealer.

If a charging station's operator prohibits the use of adapters, do not use this adapter at that station.

Do not attempt to open, disassemble or modify the adapter.
There are no user serviceable parts inside.

This device must not be used by persons (including children) with reduced physical, sensory, or mental capabilities, or by persons lacking the necessary experience or knowledge, unless they are supervised or instructed by a responsible person.

COMPLIANCE AND CERTIFICATIONS

The adapter's vehicle-side connector complies with CHAdeMO specifications 1.0 and 1.2. The vehicle side of the adapter meets the following EU directives: Low Voltage Directive (LVD) *2014/35/EU* and the Electromagnetic Compatibility (EMC) Directive *EN IEC 61851-21-2*.
CCS2 communication complies with *DIN 70121/ISO 15118*.

CE

MANUFACTURER AND IMPORTER

Manufacturer:
Guangzhou Electway Technology Co.,Ltd., China
CHAdeMO member no. R-310034
– Website: https://www.electway-charger.com

Norwegian Importer:
Grev Norge AS (VAT no. 925 374 962 MVA)
– Website: https://biladapter.no
– General inquiries: info@biladapter.no
– Service & warranty claims: service@biladapter.no

The adapter is intended for private use only.
Any other use may void the warranty.

END-OF-LIFE AND RECYCLING

When the adapter reaches the end of its service life, it must be recycled in accordance with local laws and regulations.



PLEASE VISIT OUR WEBSHOP FOR UPDATES AND OTHER GREAT PRODUCTS

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QUICK-START GUIDE FOR USING THE ADAPTER

(Please read the full User Manual before first use)

It is important that you follow these steps in the order shown:

1. INSERT THE ADAPTER INTO THE VEHICLE'S CHADEMO INLET. ENSURE IT "CLICKS" FIRMLY INTO PLACE.

2. INSERT THE CCS CHARGING CABLE FROM THE FAST-CHARGER INTO THE ADAPTER'S CCS INLET. MAKE SURE IT LOCKS SECURELY.

3. START THE CHARGING PROCESS ON THE FAST-CHARGER.

4. WHEN CHARGING IS COMPLETE, END THE SESSION AT THE CHARGING STATION OR VIA YOUR VEHICLE'S SYSTEM.
   FIRST, DISCONNECT THE FAST-CHARGER'S CCS PLUG BY PRESSING AND HOLDING THE ADAPTER'S RELEASE BUTTON WHILE PULLING OUT THE CCS PLUG.
   THEN, KEEP HOLDING THE RELEASE BUTTON AND REMOVE THE ADAPTER FROM THE VEHICLE'S CHADEMO INLET.



For troubleshooting, see the detailed instructions inside this manual.