

BLACKBOXMYCAR
POWERCELL 8
LiFePO4 Battery Pack



User Manual

For **in-house support & response within 24 hours**, please contact info@blackboxmycar.com with any questions.



Available on the
App Store



GET IT ON
Google Play

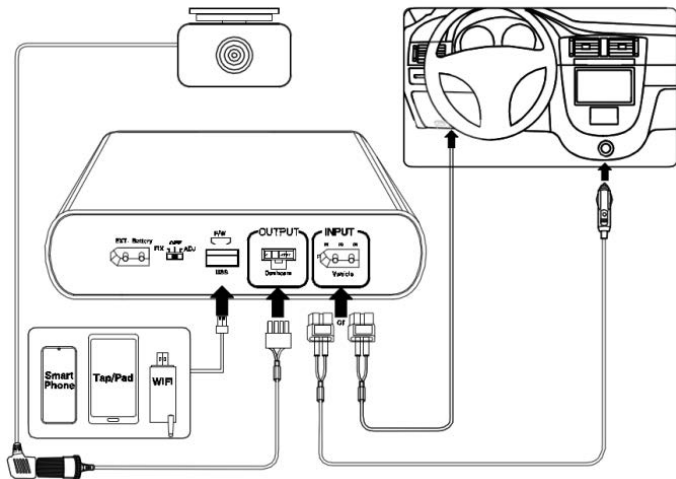
Download the **Cellink Neo Plus**  to get started

This product is an external power supply, which is used to provide extended dash cam recording when the vehicle is parked, without depleting or damaging the vehicle's battery. This manual outlines the basic steps required to install and use the external battery.

The specifications listed in this manual are subject to change without advanced notice.

POWERCELL 8 BATTERY

ABOUT



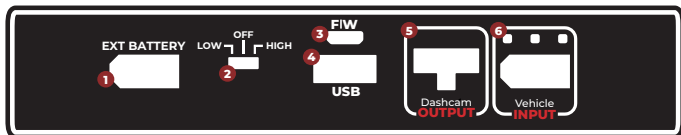
The BlackboxMyCar PowerCell 8 Battery is designed to power your dash cam in Parking Mode for extended periods of time without using your vehicle's battery.

POWER PROPERTIES

SUMMARY

- Through **built-in Bluetooth**, users can check the battery status in real-time through the smartphone app.
- When the switch is **Set to ADJ**, the smartphone app allows the user to set the charging current of the product from minimum to maximum current.
- Users can power the battery through **2 different charging methods**; through the cigarette lighter adapter or through the ACC fusebox power connection.
- Charging starts **as soon as the vehicle starts the engine**. If the ADJ on the switch is selected, the users can change the charging current through the smartphone app.
- A **micro controller (MCU)** is built-in to control the current, voltage, and balance of the battery, and the **battery protection circuit module** is built-in for secondary protection to prevent the overcharge, overdischarge and overcurrent.
- Users can extend their power capacity on the BlackboxMyCar PowerCell by connecting it with the **BlackboxMyCar PowerCell 8E Extension battery**.
- The smartphone app will warn users if the battery temperature reaches a certain temperature, and the system will automatically stop to **prevent overheating** if the product is in excess of 80°C.
- This battery is created using **Lithium Iron Phosphate (LiFePO₄)**, a material that is 3 times more durable and heat resistant compared to lithium ion, providing at least 2,000 battery cycles.
- **Compact design** makes it possible to hide under vehicle seats.

POWERCELL 8 BATTERY **TERMINAL**




- 1 Extended Battery**
Connect the BlackboxMyCar PowerCell 8E Extended battery to add more power
- 2 LOW / OFF / HIGH**
 - LOW** Set to **LOW** so that the battery only charges using the Minimum Charge Current with the smartphone app
 - OFF** System power off
 - HIGH** Set to **HIGH** so that the Charge Current can be adjusted between Minimum and Max with the smartphone app
- 3 F/W**
Connector for firmware update only (Technician Use Only)
- 4 USB**
5V output connector for charging a mobile product as a smartphone
- 5 OUTPUT**
Discharging connector for connecting to a dash cam
- 6 INPUT**
Charging connector for Cigarette Lighter Socket, ACC Power & Continuous

POWERCELL 8 BATTERY **LED DISPLAY**

	Powered On	R,G and B LEDs are turned on simultaneously and then turned off in the R,G and B order
	Pre-Charging (After Powered On)	Red LED is on after several times flashed
	Fully Charged	Green LED is on
	Bluetooth On	Blue LED is on after several times flashed

POWERCELL 8 BATTERY GENERAL SPECS

Input Power	LOW Cigarette Lighter Socket DC 12V~17V Max 6A
	HIGH Fusebox ACC Power DC 12V~17V Max 13A
Input Power	Dash Cam Connector DC 11V~14.2V Max 2A
	USB Connector DC 5V Max 2A
Charging Voltage & Current	LOW Cigarette Lighter Socket DC 14.2V Max 4.5A
	HIGH Fusebox ACC Power DC 14.2V Max 8.5A
Charging Time	LOW 5A Charging: Approximately 100 Minutes
	HIGH 9A Charging: Approximately 50 Minutes
LOW Fixed Current HIGH Adjusted Current	 LOW OFF HIGH <small>*Set the Charging Current in smartphone app when HIGH is selected</small>
Product Rating	12.8V / 7,500mAh / 95Wh
Available Hours	About 24 Hours* <small>*Based on 2CH dash cam within 4Wh power consumption</small>
Dim & Weight	157mm (W) * 207mm (L) * 39.5mm (H) / 1.67KG
Build Material	LiFePO4

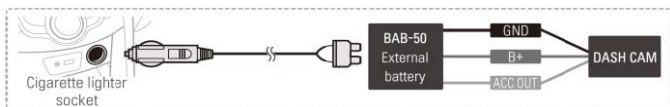
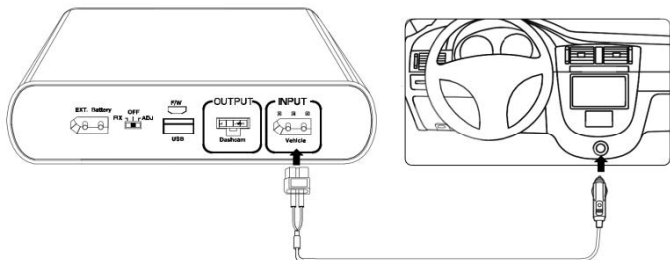


POWERCELL 8 BATTERY INSTALL GUIDE

Please set to **OFF** before installation.

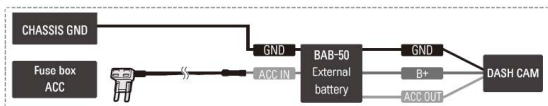
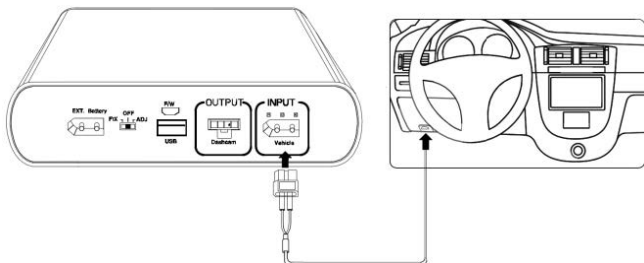
Charging Method: Cigarette Lighter Socket

When connecting the product using Cigarette Lighter Socket Input Cable



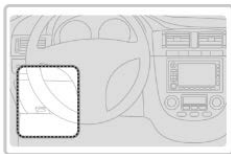
Charging Method: Fusebox ACC Input Cable

When connecting the product using Fusebox ACC Input Cable



Charging Method: Fusebox ACC Input Cable

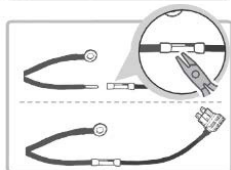
Fusebox ACC input only supplies power when the engine is on.



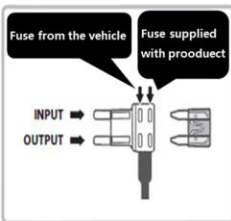
- 1 With the product's power switch in the OFF position, connect the Input Cable for the fusebox and Output Cable to the product's cable connectors.
- 2 Open your vehicle's fuse box, check the fuse standard, and select the correct fuse location for the install.



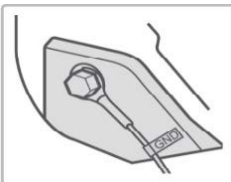
The fusebox location in the vehicle may vary depending on the manufacturer and model of your vehicle. For more information, refer to your vehicle's manual.



- 3 Insert the Input Cable into the sleeve at the end of the add-a-fuse, and then secure it by squeezing on the sleeve using appropriate tools, such as pliers.
- 4 After removing the fuse tap that is less than 10A in the fuse box, put the ACC fuse provided with product in the add-a-fuse, and then install the ACC add-a-fuse in the fuse box.



Insure that the add-a-fuse is installed into the continuous power fuse position in the fuse box.



- 5 Find a bolt fixed on the vehicle and connect the ground (GND) cable to the bolt.

If the vehicle's bolt is coated, remove the coating before connecting the ground (GND) cable. Power may not be supplied correctly due to the coating.

Make sure the product is connected properly

- 1) Fix the product using the provided velcro tape to the car floor
- 2) Turn on the switch & check that the LEDs operate properly

POWERCELL 8 BATTERY APP GUIDE

Download the App

Search for "Cellink Neo Plus" and download the app.



Before Running the App

Turn on the battery you purchased before running the downloaded app. Set to the power switch position is **LOW** or **HIGH**.



LOW



HIGH

POWERCELL BATTERY CONNECT VIA BLUETOOTH



- 1 When running the app on the smartphone, after loading, appear the **"SEARCHING DEVICE"** and the searched Bluetooth device as shown on the left picture.
- 2 Click the **"NE08+"** button on the screen.
- 3 If you rescan, the connected device is displayed in blue and automatically connected.

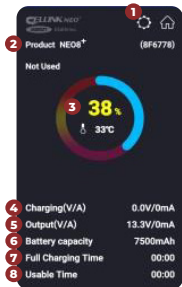


Check the code attached to the bottom of your BlackboxMyCar PowerCell 8 and click the same code on the smartphone to complete the installation.

- 1 Product Settings
- 2 Product Model Name & Bluetooth ID
- 3 Battery Charging State & Internal Temperature
- 4 Present Voltage & Charge Current to Battery
- 5 Present Voltage & Discharge Current to Battery
- 6 Battery Capacity
- 7 Estimated Time for Full Charge
- 8 Leftover Time with Current Power



The app does not always have to be on. However, if its internal temperature is high or input voltage is low, you can receive an alarm message through the app.





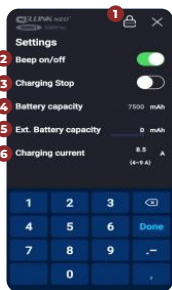
Product Password Settings

You can enter the product setting screen by tapping the gear icon on the main screen. The password is required to enter the product setting screen. The default password is set to **1234**.

You can set your own password to prevent other users from changing the product settings at will. It is recommended to change the password immediately after purchase.



'0000' cannot be used as a password, but you can set within '0001' ~ '9999'. If you have forgotten your password, please contact our Service Center.



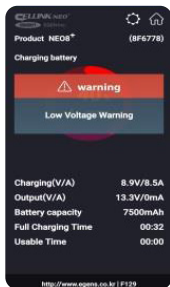
Product Password Settings

- 1 Padlock Icon:** Use your own password settings
- 2 Beep On/Off:** Setting status of battery sound
- 3 Charging Stop:** The function to stop charging the battery
- 4 Battery Capacity:** Normal capacity of battery
- 5 Ext. Battery Capacity:** If you add an extended battery pack, you can enter in the capacity of the added battery.
- 6 Charging Current:** You can change the charging current when you install the battery to the fusebox and the switch is selected to the ADJ. Just enter the current within 4A ~ 8.5A.



Warning for High Temperature

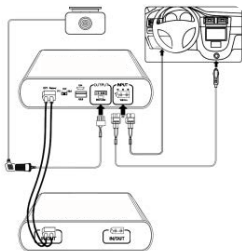
The warning screen will be displayed and stop charging or discharging if the internal temperature is more than 80°C to prevent the vehicle's & product's damage.



Warning for Low Input Voltage

This warning screen will be displayed and stop charging if the input voltage drops below 12V to prevent vehicle damage.

POWERCELL 8 BATTERY **EXTENDED BATTERY**



Product Password Settings

If BlackboxMyCar PowerCell 8 needs more capacity, connect the extended battery pack such as the POWERCELL 8E.

The POWERCELL 8E EXTENDED Battery is designed to add the capacity to BlackboxMyCar PowerCell 8 easily.

Extended Battery Installation Guide

Connect POWERCELL 8 IN/OUT connector to the EXT. Battery connector of BlackboxMyCar PowerCell 8E using the cable provided with the POWERCELL 8E product.

After installation the EXT Battery product, enter the capacity of the product connected to BlackboxMyCar PowerCell 8 on the App.

POWERCELL BATTERY **PRECAUTIONS**

Mishandling of BlackboxMyCar PowerCell batteries can lead to degradation of performance and result in problems related to heating, ignition, explosion etc. As such, it is advised to check the following details.

1. When installing on vehicles, please use only the original cable provided with the product.
2. When storing the battery, keep out of direct sunlight and do not store in a high temperature environment such as inside the car in hot weather.
3. Do not place the battery in microwave oven or a place with high pressure.
4. Do not throw or give the battery any types of shocks.
5. Do not repair or remodel the battery on your own.
6. Keep the battery out of contact of water or other liquid.
7. Do not disassemble, compress or drill a hole on the battery using sharp equipment.
8. Keep the battery out of contact of children or pets.
9. When there is a strange smell during use, discontinue using the product and exchange with a new product.
10. When the battery is inflated during use, discontinue using the product and exchange with a new product.
11. Do not use the battery in a static environment as it can affect the performance of protection circuit of the battery.
12. Keep the connection terminal of the charging cable of the battery out of contact with conducting elements.
13. Never use the product for anything else other than the power supply for Dashcam.

POWERCELL BATTERY **DISPOSAL GUIDE**

1. Don't throw away your batteries, separate them with recycled items.
2. Do not incinerate battery and put in the fire. Heat may cause explosion and fire.
3. Do isolate them each other when disposing the secondary batteries having different electrochemical systems.
4. Dispose of the battery in discharged state to prevent heat by short circuiting.
5. Disposal guidance of batteries may depend on each country and region, there for dispose batteries in accordance with the regulations for each country and region.

POWERCELL 8 BATTERY **PRODUCT WARRANTY**

- The warranty period of this product is 1 year from the purchase date.
- If the product fails during normal and correct use within the warranty period, our service center will repair the product free of charge.
- Any disassembly, modification or alteration of the product will void the warranty.
- The cost to repair or fix any malfunction or problem caused by incorrect usage during the warranty period may be charged to the consumer.
- The manufacturer shall not be responsible or liable for any loss or damage caused by incorrectly using the product.

POWERCELL 8 BATTERY **CUSTOMER SERVICE**

Manufacturer: EGEN Inc.

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Phone: (888) 978 6560

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