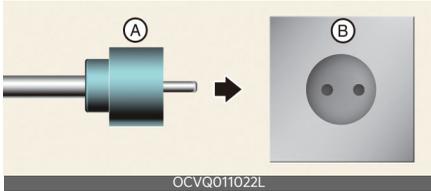


How to connect portable charger (ICCB: In-Cable Control Box)

1. Connect the plug to a household electric outlet.



- A: Plug
- B: Electric Outlet

2. Check if the power lamp (green) illuminates on the control box.



3. Depress the brake pedal and apply the parking brake.

4. Turn OFF all switches, shift to P (Park), and turn OFF the vehicle. If charging is initiated without the gear in P (Park), the charging will start after the gear is automatically shifted to P (Park).

5. Open the charging door.

For more details, refer to "Electric charging door" on page 2-21.

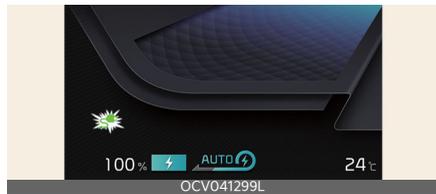
6. Open the protection caps of the charging connector and the charging plug. Check if there are any foreign substances or dust.

7. Hold the charging connector handle and connect it to the vehicle charging inlet. Push the connector all the way in. If the charging connector and charging terminal are not connected properly, this may cause a fire.

8. Charging starts automatically (charging lamp illuminates).



9. Check if the charging indicator light (S) of the high voltage battery in the instrument cluster is turned ON. Charging is not active when the charging indicator light (S) is OFF. When the charging connector is not connected properly, reconnect the charging cable to charge it again.



10. After charging has started, the estimated charging time is displayed on the instrument cluster for about 1 minute.



A: Remaining Time

If you open the driver seat door while charging, the estimated charging time is also displayed on the instrument cluster for about 1 minute. When scheduled charging or scheduled air conditioner/heater is set, the estimated charging time is displayed as "-".

Checking charging status

When charging the high voltage battery, the charge level can be checked from outside the vehicle.

For more details, refer to "Charge indicator lamp for electric vehicle" on page 2-19.

* NOTICE

- If you cannot open the charging door due to freezing weather, tap lightly or remove any ice near the charging door. Do not try to forcibly open the charging door.
- Locking Charging Cable Select **Settings** → **Vehicle** → **ECO Vehicle** → **Charging connector locking mode** in the infotainment system. The charging connector is locked in the inlet at a different period according to which mode is selected.
 - **Always lock** mode: The connector locks when the charging connector is plugged into the charging inlet.
 - **Lock while charging** mode: The connector locks when charging starts.

For more details, refer to "Charging connector lock" on page 2-19.

- Even though charging is possible with the EV button in the ON/START position, for your safety, start charging when the EV button is in the OFF position and the vehicle shifted to P (Park). After charging has started, you can use electrical components such as the radio by pressing the EV button to the START or ON position.

During charging, the gear cannot be shifted from P (Park) to any other gear.

- Depending on the condition and durability of the high voltage battery, charger specifications, and ambient temperature, the time required for charging the battery may vary.

Charging status indicator lamp for portable charger



Indicator		Details
POWER		On: Power on
CHARGE		On: Charge Blink: Current limit due to high plug temperature or high internal temperature
FAULT		Blink: Charging interrupted
CHARGE LEVEL	12	12 A
	10	10 A
	08	8 A
	06	6 A
	The charging current changes whenever the button (1) is pressed for less than 1 sec with the charger plugged into an electrical outlet but not the vehicle.	
<p>Control box</p> <p>The image shows a close-up of the control box on the portable charger. A red arrow points to a small blue button labeled with a circled '1'. The digital display above it shows '5.5'. The model number 'OCVQ011021L' is visible at the bottom of the image.</p>		

Status/Diagnosis/Countermeasure



- Charging connector plugged into vehicle (**POWER** Green ON)
- Plug connected to an electric outlet (**POWER** Green ON)

While charging



- Charge indicator (**POWER** Green ON/ **CHARGE** Blue ON)
- Charging current

Before plugging charging connector into vehicle (**POWER** Green ON, **FAULT** Red blink)



- Abnormal temperature
- CCB (In-Cable Control Box) failure

Plugged into vehicle (**POWER** Green ON, **FAULT** Red Blink)



- Diagnostic device failure
- Current leakage
- Abnormal temperature

Leakage current failure (**POWER** Green ON, **FAULT** Red Blink)



- After disconnecting and reconnecting the power plug, press and release the button for 2 seconds or longer to clear the error.

Power saving mode



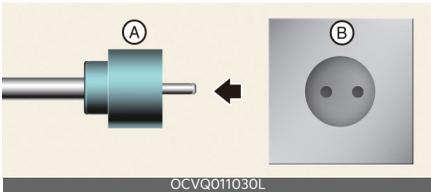
- Charge level indicator is turned off if there is no status change for more than 1 minute.

How to disconnect portable charger (ICCB: In-Cable Control Box)

1. Hold the charging connector handle and pull it out.



2. Make sure to completely close the charging door.
3. Disconnect the plug from the household electric outlet. Do not pull the cable when disconnecting the plug.



A: Plug

B: Electric Outlet

4. Close the protection caps of the charging connector and the charging plug to protect them from foreign substances.
5. If the personal charging connector is used, store the connector in the cable compartment.

Precautions for portable charger (ICCB: In-Cable Control Box)

- Use the portable charger that is certified by an authorized Kia dealer/service partner.
- Do not try to repair, disassemble, or adjust the portable charger.
- Do not use an extension cord or adapter.
- Stop using immediately when failure occurs.
- Do not touch the plug and charging connector with wet hands.
- Do not touch the terminal part of the AC charging connector and the AC charging inlet on the vehicle.
- Do not connect the charging connector to voltage that does not comply with regulations.
- Do not use the portable charger if it is worn out, exposed, or there exists any type of damage on the portable charger.
- If the ICCB case and AC charging connector is damaged, cracked, or the wires are exposed in any way, do not use the portable charger.
- Do not let children operate or touch the portable charger.
- Keep the control box free of water.
- Keep the normal charging connector or plug terminal free of foreign substances.
- Do not step on the cable or cord. Do not pull the cable or cord and do not twist or bend it.
- Do not charge when there is lightning.
- Do not drop the control box or place a heavy object on the control box.
- Do not place an object that can generate high temperatures near the charger when charging.
- Charging with the worn out or damaged household electric outlet can result in a risk of electric shock. If you are in doubt to the household electric outlet condition, have it checked by a licensed electrician.
- Stop using the portable charger immediately if the household electric