

Inductive Charging Technology in the Porsche Cayenne Electric – Questions & Answers

12/11/2025 Charging can be so simple: Porsche has introduced “wireless charging” to the market as an optional extra for the new SUV. This means: Soon there will be no need for charging cables, wallboxes, or manual involvement – simply park the car in the garage and charging will begin. How does this work?

What is inductive charging?

- **Wireless charging via a magnetic field**between two coils of copper (one in the floor plate, one in the vehicle).
- Known from devices such as smartphones or induction hobs.

Which components are required?

- **Floor plate**: Installed at the parking space and contains all necessary components.
- **Receiver unit**: Mounted behind the front axle in the vehicle.

How is the installation carried out?

- The**floor plate**is simply connected to the**mains power supply.**
- **No wall box** or additional hardware required.

How does the charging process start?

- **Vehicle and floor plate** exchange data once (including password) for initialisation.
- **A Wi-Fi module** recognises the vehicle whenever it approaches.
- A green dot (receiver) and circle (coil) appear on the **PCM display** as positioning aids.

How efficient is the system?

- **Transmission power: up to 11 kW.**
- **Efficiency: over 90%**, despite an air gap of 12-18 cm.
- **Charging time** is equivalent to that of a **wired wall box**.

What safety measures are in place?

- Shielding plates and ferrites **prevent magnetic field dispersion**.
- Foreign-object detection (e.g. keys) and living object detection (e.g. animals) **stop the charging process if there is a risk.**
- The contactless charging system falls well **below all electromagnetic compatibility (EMC) limits**.

What are the plans for the future?

- Porsche is working on a **combination of automatic parking and contactless charging**.

MEDIA ENQUIRIES



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Consumption data

Cayenne Turbo Electric (WLTP)*: Electrical consumption combined: 22.5 – 20.4 kWh/100 km; CO_2 emissions combined: 0 g/km; CO_2 class: A

*Further information on the official fuel consumption and the official specific CO_2 emissions of new passenger cars can be found in the "Leitfaden über den Kraftstoffverbrauch, die CO_2-Emissionen und den Stromverbrauch neuer Personenkraftwagen" (Fuel Consumption, CO_2Emissions and Electricity Consumption Guide for New Passenger Cars), which is available free of charge at all sales outlets and from DAT (Deutsche Automobil Treuhand GmbH, Helmuth-Hirth-Str. 1, 73760 Ostfildern-Scharnhausen, www.dat.de).

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