



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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