Audi Q4 e-tron – Bidirectional charging

Bidirectional charging: ready for the future in both directions

The Q4 e-tron* is the first Audi model to support bidirectional charging – its high-voltage battery can both receive energy from the grid and feed it back to external devices.

With Vehicle-to-Load (V2L), the car directly powers electric devices. It does so via a domestic power socket in the trunk (providing continuous power of 2.3 kW at 230 V AC) or an optional adapter on the side charging port with a domestic power socket (2.3 kW) or a camping power socket (3.6 kW). In Germany, Austria, and Switzerland, the Q4 e-tron* is also ready for Vehicle-to-Home (V2H), where the high-voltage battery acts as supplementary home energy storage, for example, in tandem with a photovoltaic system. During V2H bidirectional charging, energy from the high-voltage battery in the Q4 e-tron* can be transferred to the home via a compatible DC wallbox.
The state of charge (SoC) at which the car can supply energy is between 20 and 80 percent. V2H and V2L discharging is calculated as a mileage equivalent and displayed as a virtual odometer in the vehicle. There are two options for charging to 100 percent: either the customer sets a scheduled departure time or triggers immediate charging to full.
The DC charging capacity of the 82 kWh battery in the Audi Q4 SUV and Sportback e-tron quattro performance* increases from 175 kW to up to 185 kW – charging from 10 to 80 percent at a fast-charging station in just 27 minutes. Up to 180 km of range can be added in ten minutes. Plug & Charge is also new as standard: at compatible charging stations, the car automatically authenticates itself with an Audi charging contract when the cable is plugged in, starts the charging process, and handles billing automatically at session end.

*The collective fuel/electric power consumption and emissions values of all models named and available on the German market can be found in the list provided at the end of this text.

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