Audi Q3 Sportback 45 TFSI e – System layout

The two Q3 models both include a 1.4 TFSI as the combustion engine. This four-cylinder delivers 110 kW (150 PS). The drive is completed by a permanently excited synchronous machine (PSM), which provides 85 KW of power. The PSM is integrated in the housing of the six-speed S tronic together with the separating clutch. This dual-clutch transmission, which transfers the power to the front wheels, integrates an electric oil pump. This ensures the supply and thus the function of the clutches and with that the gear selection even when the TFSI engine is switched off.

Great driving pleasure and high efficiency – the powertrain of these two new models offers both. The 1.4 TFSI and the electric motor together generate 180 kW of system output (245 PS) and system torque of 400 Nm (295.02 lb-ft). Both the Q3 45 TFSI e and the Sportback take 7.3 seconds to burst from 0 to 100 km/h (62.1 mph), and both reach a top speed of 210 km/h (130.5 mph). In the New European Driving Cycle, the consumption of the Q3 45 TFSI e is 1.7 to 1.4 liters of fuel per 100 km (138.4 to 168.0 US mpg) (39 to 32 grams of CO_2 (62.8 to 51.5 g/mi)). The Q3 Sportback 45 TFSI e records the same values of 1.7 to 1.4 liters of fuel per 100 km (138.4 to 168.0 US mpg) (38 to 33 grams of CO_2(61.2 to 53.1 g/mi)). The total range achieved by both models is approximately 710 km (441.2 mi) – testifying to their great suitability for everyday use.

The high-voltage battery is located under the vehicle floor in front of the rear axle. Its 96 prismatic cells store 13.0 kWh of energy. It owes this high value to the compact and relatively lightweight battery of a new cell generation. The battery system has its own cooling circuit, which can be coupled to the air conditioning system’s circuit to ensure effective cooling even when requirements are at their highest.

The Audi Q3 45 TFSI e2 and the Q3 Sportback 45 TFSI e3 can be charged using alternating current (AC) at a 400 V socket with an output of 3.6 kW. An empty battery can be recharged in 3 h 45 min using the standard power charging cable in this way. The free myAudi app allows the customer to control the charging, the timer and the pre-entry climate control remotely from their smartphone. Audi customers can choose to supply their house and garage with electricity from Volkswagen Naturstrom, which is generated completely from renewable sources. The compact plug-in hybrids require a mode 3 cable for charging at public AC charging terminals. The e-tron Charging Service, which covers the majority of countries in Europe, offers great convenience here: With a single card, the customer gains access to more than 155,000 charging points.

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