

A greater electric range for the Cayenne E-Hybrid models

28/10/2020 Porsche has increased the capacity for the high-voltage battery in Cayenne plug-in hybrids.

The gross capacity of the high-voltage battery is now 17.9 kWh rather than 14.1 kWh, which is an increase in the electric range of up to 30 per cent. Measured in line with the WLTP EAER City cycle, the Cayenne E-Hybrid can now cover up to 48 kilometres with zero local emissions (NEDC: up to 56 km; Cayenne E-Hybrid: Fuel consumption combined 2.5 – 2.4 l/100 km; CO2 emissions combined 58 – 56 g/km; Electricity consumption combined 22.0 – 21.6 kWh/100 km; Cayenne E-Hybrid Coupé: Fuel consumption combined 2.6 – 2.5 l/100 km; CO2 emissions combined 60 – 58 g/km; Electricity consumption combined 22.4 – 22.0 kWh/100 km (all as of 10/2020)), while the Turbo S E-Hybrid covers up to 42 km (NEDC: up to 53 km; Cayenne Turbo S E-Hybrid: Fuel consumption combined 3.3 –3.2 l/100 km; CO2 emissions combined 75 – 72 g/km; Electricity consumption combined 23.3 – 22.8 kWh/100 km; Cayenne Turbo S E-Hybrid Coupé: Fuel consumption combined 3.3–3.2 l/100 km; CO2 emissions combined 76 – 73 g/km; Electricity consumption combined 23.5 – 23.0 kWh/100 km (all as of 10/2020)). All Cayenne E-Hybrid models therefore meet the current range criterion that

entitles owners to an “E” number plate and reduced company car tax in Germany.

The purely electric powertrain in all plug-in hybrid Cayenne models, including the even sportier coupé version, comprises an electric motor integrated into the eight-speed Tiptronic S automatic transmission. This powertrain delivers an output of 100 kW (136 PS) and 400 Nm, generating a purely electric top speed of 135 km/h. Any increased power demand from the driver or switching to the Sport or Sport Plus driving modes activates the internal combustion engine in each model. In the Cayenne E-Hybrid, this is a three-litre V6 turbo with an output of 250 kW (340 PS), which contributes to a system performance of 340 kW (462 PS). The Cayenne Turbo S E-Hybrid models feature a 404 kW (550 PS), four-litre V8 bi-turbo engine, meaning that the hybrid system as a whole has a power output of 500 kW (680 PS).

Optimised driving modes for greater efficiency

The driving modes of the standard Sport Chrono Package have been optimised to further improve efficiency and performance. E-Charge mode, in which the internal combustion engine charges the battery via load point shifting during a journey, now links to an adjusted charging strategy: the target state of charge of the battery has been reduced from 100 to 80 per cent. Much like a smartphone battery, the battery charges much more slowly and inefficiently when the battery’s state of charge reaches approximately 80 per cent or more.

This strategy also provides a way of ensuring that full recuperation power is available at all times. E-Charge mode is therefore even more efficient than it was before. In the performance-oriented Sport and Sport Plus modes, the battery is always charged to a minimum level to provide sufficient boost options for a sporty driving style, and it is now charged even more effectively at a higher, consistent charging power – at an average of 12 kW on the Cayenne Turbo S E-Hybrid in Sport Plus mode, for example.

Intelligent charging with the Porsche Mobile Charger Connect

Most drivers charge their vehicles at home so a conventional domestic or industrial electrical socket is sufficient for charging all Porsche plug-in hybrid models. Depend-ing on the vehicle model, a charging power of up to 7.2 kW can be achieved with the Porsche Mobile Charger Connect. Using a Mode 3 charging cable, it is also possible to charge at public charging points. The Mobile Charger Connect offers several intelli-gent charging functions: A timer ensures that the vehicle is ready by the specific time that the driver plans to set off. In addition to a pre-defined charging target, specific air conditioning options can be selected. All functions can be controlled via the Porsche Connect App as required.

The range of functionality is extended even further in conjunction with the optional Home Energy Manager: This systems looks at the total energy consumption of the driver’s home to determine the maximum charging power that can be generated without overloading the domestic connection.

Info

The Cayenne E-Hybrid models for the new model year are available to order now.

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