
Audi Q7 SUV – 3.0 V6 TDI with MHEV plus EN

Powerful and efficient three-liter six-cylinder diesel

To mark the launch of the new Q7, Audi is offering a powerful and highly efficient three-liter V6 diesel engine in two power levels: 220 kW (299 PS) with 630 Nm and 180 kW (245 PS) with 500 Nm of torque.

The powertrain combines MHEV plus technology with an electric-powered compressor, delivering powerful starts while maintaining high efficiency.

The MHEV plus architecture is based on three core components: the belt alternator starter, the powertrain generator – which has been refined for the Q7 – and the lithium iron phosphate battery. It not only enhances performance and the driving experience but also reduces fuel consumption and CO₂ emissions. The powertrain generator enables short periods of partially electric driving, such as when maneuvering, parking, or driving in city traffic, and supports starting off and overtaking with up to 18 kW (24 PS) and 370 Nm.

An electric-powered compressor operates across the entire engine speed range. It ensures a linear and fast response, impressive mid-range acceleration with even more direct pedal feel, increased efficiency, and improved long-term durability. The powertrain generator already provides electric torque, while the electric-powered compressor builds up the boost pressure of 3.4 bar (absolute) extremely quickly. Together, they ensure a smooth build-up of torque in the drive, which closely resembles the feel of an electric drive with similar power. During acceleration, the compressor wheel spins up to 90,000 revolutions per minute in just 250 milliseconds. Combining electric boost with the diesel engine's impressive power delivery, the V6 TDI puts its power to the road with authority.

In addition, customers can choose to fill up their new Q7 with HVO fuel. HVO (hydrotreated vegetable oil) is produced from residual and waste materials such as used cooking oil and can reduce CO₂ emissions by up to 70 to 95 percent compared with petroleum-derived diesel. It can be used as an admixture or as pure fuel.

26/08