
Audi Q9 SUV – 3.0 V6 TDI with MHEV plus EN

Balanced and powerful engine

The 220 kW version delivers 630 Nm of torque, while the 180 kW diesel engine delivers 500 Nm. To enhance efficiency and acceleration, both power levels use an MHEV plus system, comprising a powertrain generator refined for the Q92, a belt alternator starter, and a lithium iron phosphate battery. The powertrain generator provides up to 18 kW (24 PS) of power when starting off and overtaking. It enables electric driving and assists the internal combustion engine, which reduces CO₂ emissions and fuel consumption. An eight-speed tiptronic and permanent quattro all-wheel drive are always on board.

The V6 TDI also features an electric-powered compressor (EPC – 7.5 kW peak power, 3.5 kW continuous power), which complements the MHEV plus system, and two-stage turbocharging. When needed, the electric-powered compressor builds up absolute boost pressure of up to 3.6 bar in just 1.2 seconds, ensuring a dynamic response. By providing more torque even at low engine speeds, the use of the electric-powered compressor also reduces fuel consumption. The combination of the V6 diesel engine, the powertrain generator, and the electric-powered compressor delivers impressive thrust, which is particularly evident when pulling away from a standstill.