
Audi Q8 – Mild Hybrid Technology (MHEV)

All drive systems are particularly efficient thanks to the new mild hybrid technology (MHEV). The 48-volt main electrical system incorporates two important technology modules: a lithium-ion battery and a belt alternator starter. During braking, it can recover up to 12 kW of power and feed it back into the battery.

The MHEV technology enables long coasting phases with the engine deactivated and a start-stop range that begins at 22 km/h (13.7 mph). In customer operation, it reduces consumption by up to 0.7 liters per 100 kilometers. The Audi Q8 50 TDI has an unladen weight of 2,145 kilograms (4,728.9 lb) – including the elaborate MHEV technology with lithium-ion battery.

In combination with the efficiency assist, the adaptive cruise assist slows and accelerates the Audi Q8 predictively by analyzing sensor information, navigation data and traffic signs. It automatically adjusts to the current speed limit, reduces the speed before corners, during turning and on roundabouts. The system always considers a driving style in keeping with the selected driving program, from efficient to sporty, and thus with its predictions optimally supports the advantages of the mild hybrid technology (MHEV).

If the adaptive cruise assist is deactivated, the efficiency assist displays predictive tips in the instrument cluster and also provides haptic feedback through the active accelerator pedal. By so doing the system helps the driver to drive efficiently. This results from the use of the MHEV recuperation and the intelligent selection of coasting or thrust, depending on the events ahead.

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