
Audi S5 Avant – 3.0 V6 TFSI with MHEV plus technology

Lower consumption, more agility, and comfort with MHEV plus

The new MHEV plus system, based on a 48-volt onboard electrical system, simultaneously supports the combustion engine, reduces CO₂ emissions, and increases performance. The new powertrain generator (PTG) enables partially electric driving, which reduces fuel consumption. The new MHEV plus system enables the A5 model series to achieve significant advantages in CO₂ emissions and fuel consumption over an MHEV system. They total up to 10 g/km or 0.38 l/100 km for the 2.0 TDI (150 kW front-wheel drive/quattro) (combined fuel consumption in l/100 km (62.1 mi): 5.6-4.7 (42.0-50.0 US mpg); combined CO₂ emissions in g/km: 147-124 (236.6-199.6 g/mi); CO₂ class: E-D) and up to 17 g/km or 0.74 l/100km for the V6 3.0 TFSI (270 kW quattro) (combined fuel consumption in l/100 km (62.1 mi): 7.9-7.4 (29.8-31.8 US mpg); combined CO₂ emissions in g/km: 180-167 (289.7-268.8 g/mi); CO₂ class: G-F)¹.

The PTG can contribute up to 18 kW (24 PS) of electric power to the drive. When decelerating, the PTG recovers energy back into the battery through regenerative braking (recuperation) at up to 25 kW. On slight inclines and when maneuvering slowly, the car can be moved solely by the PTG. The electric powertrain can be partially used when driving slowly in the city, in slow-moving traffic, for example, on country roads, and when coasting towards a city limit. The PTG is attached directly to the transmission output shaft.

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