
The J1 performance platform – the first e-tron GT concept

The e-tron GT concept is using the J1 performance platform developed by Porsche as the technical basis. The Audi e-tron GT concept showcar is equipped with two permanently excited synchronous machines (PSM) that output a system performance of 590 metric hp (434 kW) and 830 Nm (612.2 lb-ft) of torque. The four-door GT is propelled from zero to 100 km/h (62.1 mph) in 3.5 seconds and reaches 200 km/h (124.3 mph) in just over 12 seconds, before propulsion ends at 240 km/h (149.1 mph).

If necessary, the Audi e-tron GT concept can be charged in a short space of time. The high-voltage system is designed for a voltage of 800 volts and allows the battery to be charged to 80 percent in about 20 minutes at a DC terminal with an output of 350 kW. In accordance with the WLTP standard, the Audi e-tron GT concept achieves a range of more than 400 kilometers (248.5 mi) on one battery charge.

The battery, which has an energy content of more than 90 kWh, is located in the underbody, between the axles. The battery package is designed with recesses in the rear footwell. This provides a high level of seating comfort for all occupants. This special layout allows the drive battery to be integrated in the vehicle floor despite the low body position that is typical for sports cars, thereby creating a very low vehicle center of gravity. At the same time, this creates comfortable seating ergonomics. Its lightweight design body and the roof made of carbon fiber-reinforced polymer (CFRP) are built according to the principle of multi-material construction. At 4.96 meters (16.3 ft) long, 1.96 meters (6.4 ft) wide and 1.38 meters (4.5 ft) tall, the near-production-level Audi e-tron GT concept has the proportions of a typical Gran Turismo.

The drive management distributes the torques of the electric motors between the axles as needed and also regulates the wheels separately. The technology layout allows for numerous suspension and performance features, for example all-wheel steering or a sport differential, providing excellent traction and a high level of vehicle dynamics.

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