



Communications Model Lines, Innovation and Technology

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Audi connects the electric car with the house

- **Audi e-tron integrated seamlessly into connected home**
- **Convenient, cost-optimized charging with photovoltaic power**
- **Partnership with SMA Solar Technology and Hager Group**

Ingolstadt, June 13, 2018 – Audi is taking the idea of electric mobility beyond the automobile in offering its customers a tailormade system offering. To that end, the brand is teaming up with two new partners to connect its electric model Audi e-tron with the user’s home infrastructure. Intelligent interaction with home energy management systems from SMA Solar Technology and the Hager Group enables cost-optimized charging – including using sustainable photovoltaic power if desired.

Audi offers various solutions for charging at home, which is where the majority of all charging operations take place: The standard compact charging system enables charging with an output of up to 11 kW. The optional connect charging system doubles the output to 22 kW, to which end the Audi e-tron is equipped with a second, optional charger. The connect charging system also connects with the infrastructure via the home Wi-Fi and, in conjunction with a home energy management system (HEMS), enables intelligent charging functions. “In keeping with our premium quality standards, we want an electric car that fits seamlessly into the intelligently connected home, to provide genuine added value for the customer. That is why we have teamed up with the two leading suppliers of home energy management systems, the Hager Group and SMA Solar Technology. That brings maximum charging convenience,” says Fermin Soneira, Head of Product Marketing at Audi.

Cost and CO₂-optimized charging

With the connect charging system and a suitably equipped HEMS, the customer can use variable electricity tariffs to charge the Audi e-tron. This system can charge the battery when electricity is less expensive while simultaneously considering individual mobility requirements, such as departure time and charge level. The connect charging system gets the necessary rate information either from the HEMS or from information the customer enters into the myAudi portal. If the home is equipped with a photovoltaic system, the customer can optimize the charging process to prefer the electricity generated by the system for charging the Audi e-tron. The electric SUV does this by considering forecast phases of sunshine and the current flow of electricity at the home’s connection point to the public grid.



Blackout protection

The intelligent charging function also protects the customer in the event of a blackout. The customer always charges with the maximum available capacity that the home electrical system and the car allow. The charging system also considers the power requirements of other consumers to avoid overloading the home electrical system and thus tripping the master breaker. The customer can check their individual charging statistics and charging progress in the myAudi portal and myAudi app. Besides charging times and the amount of electricity charged, the system also provides detailed information about the corresponding costs. This data is stored on a secured server, and the portal offers both analysis and export functions.

The e-tron marks the dawning of a new era for Audi. The company is being transformed from a classic manufacturer of automobiles into a mobility system supplier. Thanks to the comprehensive range of charging options with intelligent solutions for home and on the move, customers can enjoy electric driving without compromises.

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The Audi Group, with its brands Audi, Ducati and Lamborghini, is one of the most successful manufacturers of automobiles and motorcycles in the premium segment. It is present in more than 100 markets worldwide and produces at 16 locations in twelve countries. 100 percent subsidiaries of AUDI AG include Audi Sport GmbH (Neckarsulm), Automobili Lamborghini S.p.A. (Sant'Agata Bolognese, Italy) and Ducati Motor Holding S.p.A. (Bologna, Italy).

In 2017, the Audi Group delivered to customers about 1.878 million automobiles of the Audi brand, 3,815 sports cars of the Lamborghini brand and 55,900 motorcycles of the Ducati brand. In the 2017 fiscal year, AUDI AG achieved total revenue of €60.1 billion and an operating profit of €5.1 billion. At present, approximately 90,000 people work for the company all over the world, more than 60,000 of them in Germany. Audi focuses on sustainable products and technologies for the future of mobility.