Audi e-bike Wörthersee

The Audi e-bike Wörthersee is a high-performance sports machine for sporty people. Its design reflects the concentrated dynamism of the brand, with CFRP playing a major role in its ultra-lightweight design principle.
The changed role that the car will adopt in the mobility of tomorrow is creating space in the world's major cities for new means of transport – for lean, lightweight and efficient vehicles with two, three or four wheels, for e-pedelecs, e-skateboards, e-trikes or even e-quads. Audi designers are picking up on this trend and transferring it into the brand's progressive design language.

One example of this is the Audi e-bike Wörthersee, a study from spring 2012 conceived as a high-performance sports machine. In developing it, designers looked to the principles of motorsport – the design of the Audi e-bike is focused very much on technology, coming over as extremely precise, extremely functional and extremely emotional.

The frame and the rear swingarm are made entirely from carbon-fiber reinforced polymer (CFRP) and all lines have a strong forward momentum. The angular contours fit perfectly with Audi's progressive design language, as do the lights made up of homogenous LED bands and the red accents on the handlebar, brakes, seat and pedals.

The 26-inch wheels, also made from CFRP, feature an "Audi ultra blade" design with broad spokes that have a large surface area optimized for power flow – the e-bike Wörthersee, which weighs in at just eleven kilograms without its electrical components, documents in all its details the brand's expertise in ultra-lightweight design. The 2.3 kW electric motor is connected to the bottom bracket and, when the e-bike is operating in "Pedelec" mode, enables a top speed of up to 80 km/h. The lithium-ion battery, mounted in the frame, delivers a range of up to 70 km.

Status: 2012