



PRESS RELEASE

Forsee Power unveils its first ZEN SLIM modular batteries, the thinnest in the world

Paris, March 22, 2021 – Forsee Power, the expert in battery systems and European leader in batteries for heavy vehicles, unveils the first extra-thin batteries of its new SLIM offer. The new ZEN SLIM high energy density batteries come in 3 sizes and make up the thinnest modular package in the world.

ZEN 11, ZEN 16 and ZEN 21: modular and scalable batteries to meet vehicles' volume constraints

Autonomy is no longer an obstacle to the electric conversion of commercial and industrial vehicles. However, one of the major challenges of electrification remains the integration of batteries in limited spaces (roof, floor, thermal vehicle chassis that cannot be modified).

Thus, Forsee Power's mechanical, thermal, electronic and system engineering experts have developed the thinnest modular battery offer in the world, making it possible to meet all volume constraints, even the smallest one (floor). The modules, of 11, 16 or 21 kWh, can be combined and stacked on top of each other in larger spaces such as the roof of a bus, or the old engine compartment of a thermal vehicle being electrified.

With energy densities of 166 Wh / kg and 200 Wh / L, the new modular ZEN SLIM offer enables OEMs to expand their ranges of zero-emission commercial and off-highway vehicles by optimizing all available volumes and avoiding modifying existing chassis. It also allows bus manufacturers to integrate batteries into the floor: by reducing the weight of their vehicles and increasing passenger capacity, operating costs are therefore optimized for operators.

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Focused effort towards innovation ensures an ultra-competitive total cost of ownership (TCO)

The premium high-capacity “pouch” lithium-ion cells were selected by Forsee Power R&D engineers for their exceptional lifespan. Combined with efficient liquid thermal management, they offer ZEN SLIM modules a lifespan of 5,000 cycles, enabling ultra-competitive TCO.

The liquid thermal management system not only extends the life of the batteries but also ensures optimal performance, irrespective of the climatic conditions, including the most extreme ones.

In addition, ZEN SLIM batteries can be charged and discharged with a continuous current of 177A (1C) and withstand peak charge and discharge currents of up to 354A (2C). This current control allows overnight charging or opportunity charging and provides high levels of instantaneous power.

Production close to Forsee Power's customers to reduce the carbon footprint related to transport

Forsee Power has 4 production sites, in Europe (France, Poland) and in Asia (China, India). This translates to a strong industrial footprint – sized to meet the needs of its customers around the world – allowing the Group to locate the production of its batteries as close to its customers' assembly plants as possible, significantly reducing the carbon footprint related to transport and limiting costs and delivery times. These four production sites also provide battery maintenance services, in addition to remote diagnostic devices.

New high energy as well as power & energy products will complete the SLIM offer during 2021.

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About Forsee Power

Forsee Power is an industrial group specializing in smart battery systems for sustainable electric transport (2/3 wheelers, trucks, buses, trains, marine vessels). A leader in Europe and a major player in Asia, and North America the Group designs, assembles and supplies energy management systems based on the most robust cells available on the market as well as provides installation, commissioning and on-site or remote maintenance. Forsee Power also offers financing solutions (battery rental) and second life solutions for transport batteries.
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