

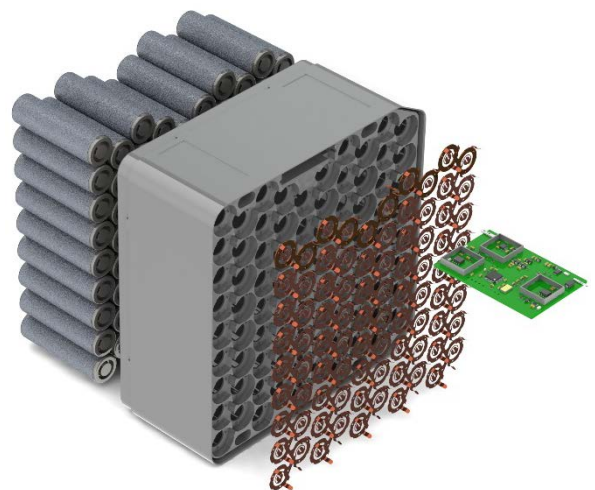
LIGHT BATTERY

LION Smart GmbH has developed a new proprietary battery concept, the LIGHT Battery. This battery concept does not require the usual sense wiring for voltage and temperature monitoring as well as the data bus cable. The resulting free installation space allows a previously unimaginable packing density of the cylindrical cells. Due to the cells and electronics completely embedded in a liquid, a "wireless" construction of the battery stack is possible by means of acoustic and optical communication between the cells, which uses the liquid itself as a medium for data transmission. The liquid used is ideal for use in mobile high-performance batteries thanks to its excellent thermal, electrical and fire extinguishing performance properties.



Technical Highlights

- » **Designed for fully automated production** – smallest part count for battery stack in the industry
- » **No wires** – wireless infrared communication
- » **Adjustable size** – meeting the needs of every application and customer
- » **Highest energy density** – through reducing overhead parts, wires and high-level functionality integration
- » **Even temperature distribution** – through innovative cooling to guarantee maximum lifetime
- » **Improved safety** – through sophisticated double sided fuse and immersion



The battery concept provides technical solutions for current optimization possibilities, such as high energy density, a robust safety concept with maximum operating lifetime.