





Power: When you need it Where you need it

The Lohner Smart Battery couples a high energy density LiPo battery with full-featured monitoring and control system to provide high-availability standby power for your mission-critical system. This compact package with rugged power and communication connectors is suitable for installation almost anywhere.

Brains and Brawn

A STM32H7A3 ARM®
Cortex®-M7 processor provides a platform for advanced real time monitoring and state estimation.

The Lohner is rated to output 50A until battery depletion or up to 100A for 30 seconds. Rugged 5.7mm SurLok PlusTM connectors accept 16mm² to 25mm² (4 to 6 AWG) wire.

The output is protected against short-circuits, and can be directly tied to a vital bus. The Lohner automatically provides battery power when the bus drops below the battery voltage.

Customizable

Lohner is powered by the allocortech open-platform C++ SDK. This allows users to customize system behavior to meet their exact requirements.

Flexible Connections

In addition to the SurLok PlusTM primary power connectors, the Lohner sports a 38999 connector which containing: An auxiliary power input for battery tending from a secondary bus, two CAN-FD or RS-485 interfaces, an RS-232 interface, and an input for an external push button to bring the battery on-line.

Long Shelf Life

The Lohner never sleeps! It utilizes a low-power mode to prolong battery life in-between uses. While idle, the Lohner continuously monitors battery state of charge (SoC) and can be brought online in an instant via external button press.

LiPo Chemistry

Lithium polymer batteries have higher energy density and lower weight than other lithium ion chemistries.



Lohner Smart Battery

Specifications

Capacity 8000 mAh*

Voltage 22.2V (6S LiPo)*

 Min
 18V

 Max
 25.2V

 Nominal
 22.2V

Discharge Rating

Peak 100A for 30s
Continuous 50A continuous

Charging Rate 3A maximum

Charging Inputs Charges from voltage

applied to the primary output terminals, or an auxiliary bus input on the 38999 connector.

Shelf-Life 3 months minimum

without maintenance

charging

Weight 2100 g

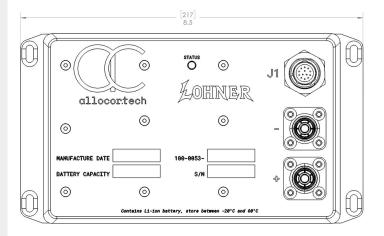
Communications 2x CAN or RS485

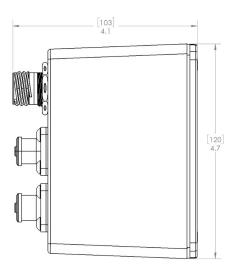
1x RS-232

Always Ready

The Lohner displays its status via an externally visible LED. A slow green blinking indicator means the battery is charged and the unit is ready. A red indicator means the battery has fallen below 40% capacity. The unit is recharged by simply connecting power - no communications required!

Mechanical Outline





^{*}customization upon request