



## 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<sup>®</sup> Cortex<sup>®</sup>-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 Plus<sup>™</sup> connectors accept 16mm<sup>2</sup> to 25mm<sup>2</sup> (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 Plus<sup>™</sup> 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.

## Specifications

<b>Capacity</b>	8000 mAh*
<b>Voltage</b>	22.2V (6S LiPo)*
Min	18V
Max	25.2V
Nominal	22.2V
<b>Discharge Rating</b>	
Peak	100A for 30s
Continuous	50A continuous
<b>Charging Rate</b>	3A maximum
<b>Charging Inputs</b>	Charges from voltage applied to the primary output terminals, or an auxiliary bus input on the 38999 connector.
<b>Shelf-Life</b>	3 months minimum without maintenance charging
<b>Weight</b>	2100 g
<b>Communications</b>	2x CAN or RS485 1x RS-232

\*customization upon request

## 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

