

LUX battery

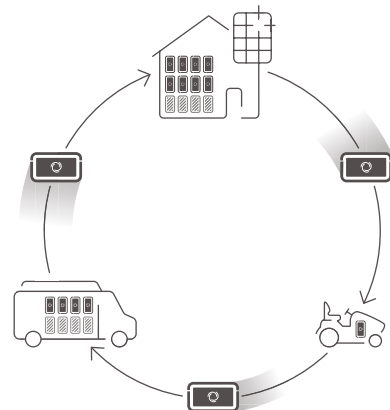
The future of modular energy storage



No more borders between mobile and stationary use

The LUX battery is a lithium-based storage system, which due to its exceptional modularity can be used in 12V, 24V and 48V systems. This innovative design enables a multi-use concept in mobile and stationary applications by applying the storage capacity where it is needed, on the fly.

The BOS smart battery system ensures maximum safety through the latest LifePo4 lithium cells, a built-in next-generation battery management system, a redesigned cell heating and a whole range of state-of-the-art functions for intelligent control and optimization, such as full data recording, digital handshake and full traceability.




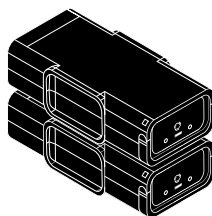
LUX battery

TECHNICAL DATA

Battery voltage	12 VDC
System voltage	12-48 VDC
Battery cells used	LiFePO4
Nominal lithium capacity	80 Ah / 1024 Wh
Numbers of cycles at room temperature	3000 full cycles (80% remaining capacity after 3000 cycles)
Continuous charging/discharging current	Max. 80 A
Housing dimensions	175 mm width x 102,5 mm height x 353 mm length
Weight	10,5 kg
Connection terminals	M8 cable shoes, or lead acid terminals (optional)
Operation ambient temp.	-30 -60 °C with maximum battery life at 15-25 °C
Warehousing ambient temp.	10 -30 °C
Lithium cell balancing	Battery management inclusive balancer
Operation modes	Pure lithium / Hybrid with lead acid battery
Protection features	Overcurrent, overvoltage, short circuit, overcharge, deep discharge, wrong polarity protection, temperature protection
Smart Features	Soft start function, digital handshake, optional communication interfaces (Bluetooth, CAN RVC etc.)

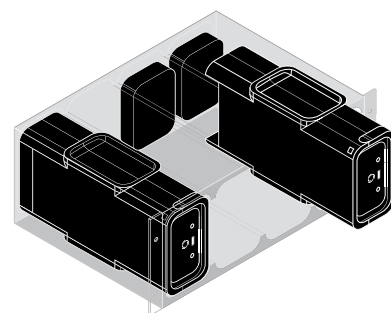
For use in available space in existing mobile home layout

 Size fits into space of a 95Ah lead acid battery



For use in stationary applications and new mobile home layouts

 LUX frame fits into any 19" rack



EXEMPLARY BATTERY PACK CONFIGURATION

Qt. of packs connected in parallel / serial	2 parallel	1P4S
Total nominal voltage	12.8 VDC	51.2 VDC
Total lithium capacity	160 Ah / 2kWh	80 Ah / 4kWh
Continuous charging/discharging current	160 A / 2kW	80 A / 4kW