

BOS battery S

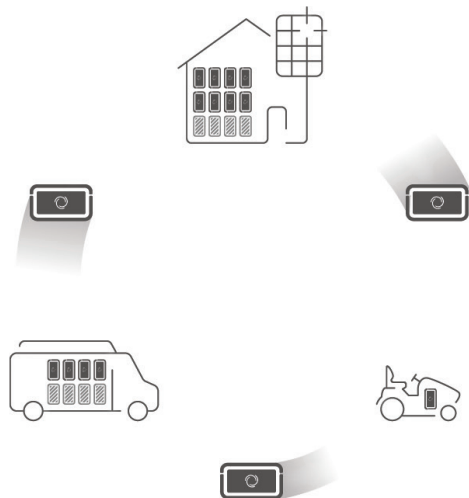
Designed for an innovative multi-use concept



No more borders between mobile and stationary use

The BOS Battery S is a lithium-ion battery, which offers maximum safety with LiFePO₄ cells. Its groundbreaking design enables unlimited applications and unsurpassed space efficiency. At the same time, the technology ensures a state-of-the-art battery management system.

The battery is built modular so that it can be interchanged between different locations and voltages. This makes it possible to move the batteries wherever and whenever they are needed.



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TECHNICAL DATA

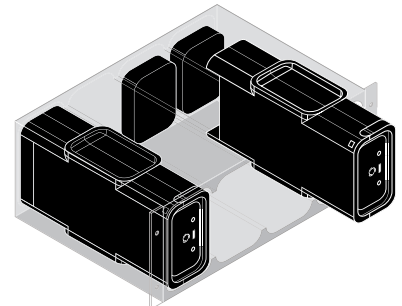
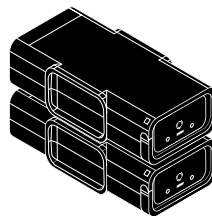
Battery voltage	12.8 VDC
System voltage	12 - 48 VDC
Battery cells used	LiFePO4
Lithium capacity	80 Ah / 1024 Wh
Numbers of cycles at 1C / 25°C	3000 full cycles (80% remaining capacity after 3000 cycles)
Numbers of cycles at 0,3C / 25°C	>5000 full cycles (80% remaining capacity after 5000 cycles)
Continuous charging/discharging current	Max. 80 A
Housing dimensions	175 mm width x 102.5 mm height x 353 mm length
Weight	9.9 kg
Connection terminals	M6 cable shoes or lead acid terminals (with optional adapter)
Charging temperature	-30°C - 60°C (integrated heater active between -30°C and 10°C)
Discharging temperature	-20°C - 60°C
Operation modes	Pure lithium / Hybrid with lead acid battery
Protection features	Redundant overcurrent, overvoltage, short circuit, overcharge, deep discharge, wrong polarity, overtemperature, undertemperature
Smart features	Integrated BMS with balancing, soft start function, digital handshake, CANOpen and optional communication interfaces.



Two batteries fit into space of a 95Ah lead acid battery



BOS frame S fits into any 19" rack



EXEMPLARY BATTERY PACK CONFIGURATION

Qt. of packs connected in parallel / serial	2 parallel	4 serial
Total nominal voltage	12 V	48 V
Total lithium capacity	160 Ah / 2kWh	80 Ah / 4kWh
Continuous charging/discharging current	160 A / 2kW	80 A / 4kW