



LITHIUM-ION BATTERY SYSTEM

LIONBLOCK

SCALABLE & POWERFUL LI-ION BATTERY SYSTEM

Powerful Solutions Partner

Micropower Group is a complete system supplier of industrial Lithium-Ion batteries, battery chargers and power supplies. With own production and R&D, we take responsibility for the whole chain where we develop, design and manufacture and supply battery and battery charging products and systems to customers and distributors worldwide.

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MICROPOWER GROUPTM
POWERFUL SOLUTIONS PARTNER



LIONBLOCK LITHIUM-ION BATTERY

SCALABLE AND FLEXIBLE ENERGY STORAGE

LionBLOCK is a scalable and flexible Lithium-Ion battery system designed for industrial applications. This fully compliant battery pack offers exceptional adaptability in voltage and capacity - from 48V to 1000V and up to 2 MWh.

One Block – Infinite Possibilities

LionBLOCK is a modular battery system that supports both low- and high-voltage configurations, ensuring flexibility for industrial applications. Built on standardized battery modules, it allows seamless scaling and integration into various system architectures. The stackable design simplifies installation, making it a future-proof energy solution for both compact and large-scale setups.

Safe and Robust

Designed for industrial applications, LionBLOCK meets high safety and performance standards. Manufactured in automated production lines in Sweden, it ensures precision and quality. With active cooling, reinforced construction, and cybersecurity compliance, it delivers a secure and durable power solution for demanding environments.

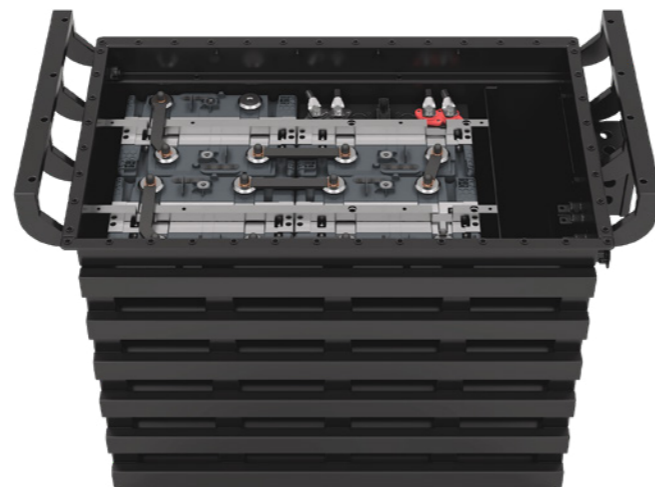
Freedom of Choice

Featuring a cell-agnostic design and standardized form factor, LionBLOCK is supplier-independent. This allows integration of various cell chemistries, ensuring adaptability to evolving energy storage needs while maintaining system compatibility.

- High energy density
- Functional safety, according to ISO26262 & ISO13849
- Plug and play integration

Complete LionBLOCK system consists of

- Battery modules
- Battery monitoring system
- Power electronics
- Diagnostics



BLOCK Module specs:

Properties	B-M50E	B-L50E
Chemistry Type	NMC	NMC
Dimension (mm)	403x320x101	587x320x101
Weight	19 kg	28.5 kg
Cell Configuration	14P14S	21P14S
Nominal Capacity	70 Ah	105 Ah
Nominal Energy	3.6 kWh	5.4 kWh
Nominal Voltage	51.1 V	51.1 V
Continuous Charge Current	84 A	126 A
Continuous Discharge Current	100 A	150 A
Ingress Protection classification	IP67	IP67
Operating ambient temperature	-40 to 60 °C	-40 to 60 °C
Vibration Resistance	5-500Hz, 4gmrs	5-500Hz, 4gmrs
Mech. Shock Resistance	25g 6ms, half sine, 2500 per direction	25g 6ms, half sine, 2500 per direction

