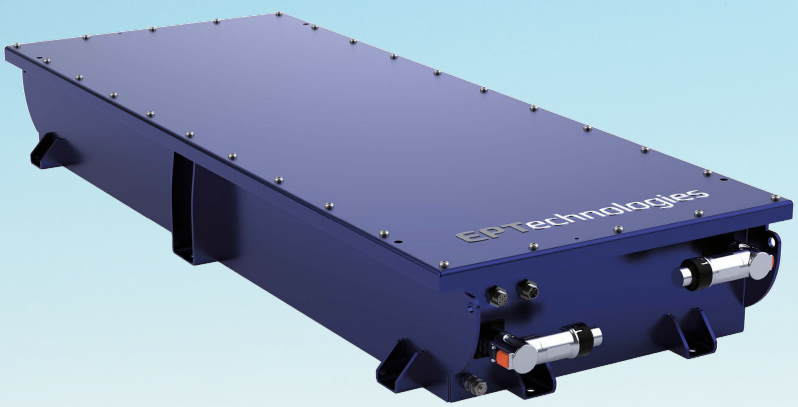
EPTechnologies
Energy Power Technologies

HIGH VOLTAGE NMC MARINE BATTERY SYSTEM

SKAGEN

More Energy. Less Volume.



High Energy Density, Low Weight

- Lightweight design with 3.7 V nominal Li-NMC cells
- 5.6 kg/kWh at module level
- Lower cell impedance for improved performance and efficiency
- Dual -core lockstep CPU BMS ensures redundancy and continuous monitoring
- Integrated pre-charge circuits in each battery string
- Scalable High-Voltage architecture - up to 1000 V
- Built-in isolation monitoring
- Advanced SoC and SoH calculation
- Proven reliability: Thousands of modules in operation since 2022, with no recorded failures

CONTACT US:

EPTechnologies Aps

Jyllandsgade 17 • 6400 Sønderborg, Denmark
phone: +45 30 20 96 94
sales@eptechnologies.dk
www.eptechnologies.dk

INFO

NMC High Energy Density. Low Weight.

- RINA propagation test successfully demonstrated: no propagation between cells; DNV Type Approval in progress.
- Designed & demonstrated to limit fire propagation through fire-resistant materials and internal isolation measures
- Optional fire prevention system for additional fire protection
- Smaller pack configurations available on request: 50% capacity in approximately 60% of pack length.
- High cycle life and robust safety features

Estimated cycle life assuming that:	DOD	Est. cycle-life	BMS-Level Protection
- Never below 10 % SOC, better 20 % - Never above 95 % SOC, better 85 % - Average temp. 25 °C, never above 45 °C - Normally max 1.2 C discharge	50%	4'000	- SIL-C certified – highest functional safety - Precision sensing, optimized cell & energy use - Dual sensors & overcharge protection per module - Manual isolation & real-time fault monitoring
	60%	3'500	
	70%	3'000	
	80%	2'500	

ELECTRICAL CHARACTEISTICS	
Chemistry	NMC
Nominal Voltage	88.8 V
Nominal Energy	15.7 kWh
Cycle Life	3000 (@ 25 °C, 0.5 C / 1 C, 70 % DoD)
Cell configuration	24S1P
Recommended Maximum Voltage	102 V
Absolute Maximum Voltage	103 V
Reommended Minimum Voltage	84 V
Absolut Minimum Voltage	72 V

STANDARD CHARGE	
Maximum Continuous Charge Current	1 C
Maximum Peak Charge Current	1.5 C for 15 Minutes

STANDARD DISCHARGE	
Maximum Continuous Discharge Current	1.6 C
Maximum Peak Discharge Current	2 C for 15 min; 3 C for 10 sec at 25 °C

ENVIRONMENTAL - HV / HIGH ENERGY	
Temperature Range	-10 °C to 50 °C
Ideal Working Temperature	5 °C to 25 °C

MECHANICAL - HV / HIGH ENERGY	
Battery Case	Aluminium housing & fire isolated aluminum top cover
Dimensions (L x W x H) mm	1090 x 425 x 147 mm
System Mount	Self Stackable or Rack
Weight	88 kg
Communication mode	CAN bus, 250 kbit/s
IP Rating	IP65: IP66 available on request
Certifications	CE, UN 38.3, IEC 62619, IEC 62620, DNV pending
General Warranty	2 years standard, 3 to 5 years optional
Cycle-Life Warrany	5 years

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