

# Quark-B261~417-L

## Outdoor Cabinet Liquid-cooled Battery System

Outdoor cabinet liquid-cooled battery system developed by LEOCH. The system adopts modular design and integrates battery energy storage units, BMS, temperature control system and fire protection system and other equipment. As a DC side product, It features efficient thermal management, multiple safety designs, compact structure (small footprint), and convenient transportation, installation, and maintenance. Equipped with external communication interfaces, it can connect external PCS and EMS. This product is widely used in industrial, commercial, and large-scale energy storage scenarios, such as peak shaving and valley filling, photovoltaic energy storage, peak shaving and frequency regulation, microgrids, and emergency backup power applications.



\*The appearance of the product is for reference



### Complete certification

IEC62619, IEC62477, IEC61000, IEC62933-5-2, UL1973, UL9540A.



### Safe And Reliable

Multiple fire protection design, cell level temperature detection + cabinet level aerosol fire extinguishing + explosion-proof pressure.



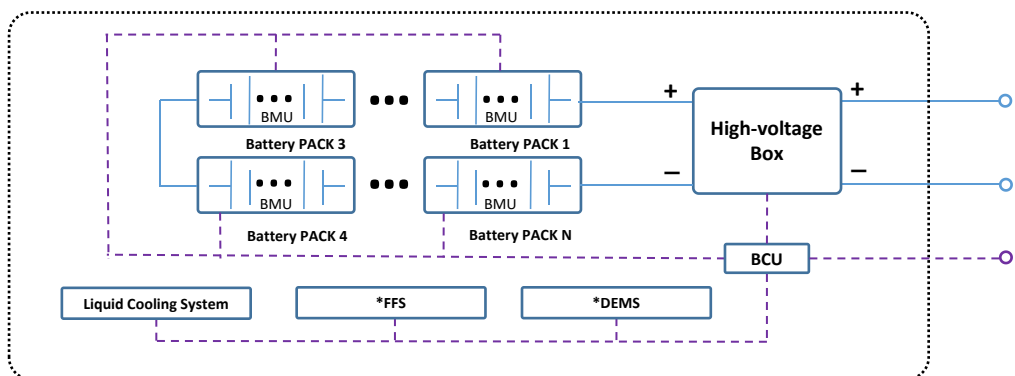
### Flexible Configuration

Modular design, flexible expansion, multi machine parallel design, supporting rapid expansion to megawatt level DC systems.



### Extreme Temperature Control

Precise liquid cooling temperature control, system temperature difference  $\leq 3 \pm 1.5$  °C. The system has higher efficiency and longer service life.



..... Leoch Equipment      - - - - - Communication Line      ——— DC Power Line

\*DEMS: Dynamic Environment Monitoring System; \*FFS: Fire Fighting System

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System model	Quark-B261-L	Quark-B313-L	Quark-B365-L	Quark-B417-L
<b>Battery Parameters</b>				
Cell Type	LFP3.2V/314Ah			
Battery PACK Type	1P52S			
Cluster Configuration	1P260S (5 PACK)	1P312S (6 PACK)	1P364S (7 PACK)	1P416S (8 PACK)
Nominal Energy	261kWh	313kWh	365kWh	417kWh
Nominal Voltage Range	832V	998.4V	1164.8V	1331.2V
Battery Voltage Range	728V~936V	873.6V~1123.2V	1019.2V~1310.4V	1164.8V~1497.6V
<b>System Parameters</b>				
Dimensions (W*D*H)	1360*1350*2400 (mm)			
Weight	About 2865 kg	About 3215 kg	About 3565 kg	About 3915 kg
IP Level	IP55			
Corrosion protection Level	C4-H			
Altitude	2000 meters (>2000m derate for use)			
Operating Temperature	-20°C~50°C			
Relative Humidity	0~95% (no condensation)			
Balancing Mode	Passive equilibrium			
Cooling method	Intelligent liquid cooling			
Fire Fighting System	Cabinet level aerosol fire extinguishing + explosion- proof pressure relief (Meet 1-hour fire resistance rating)			
Communication Interface	RS485, CAN, Ethernet			
Certifications	<b>System:</b> UL1973, UL9540A, IEC62619, IEC62477, UN38.3 <b>PACK:</b> UL9540A, IEC60529 (IP67), (EU) 2023 1542, UN38.3			<b>System:</b> IEC61000, IEC62619, IEC62933-5-2, IEC62477, UL9540A, UL1973, UN38.3; <b>PACK:</b> UL9540A, IEC60529 (IP67), (EU) 2023 1542, UN38.3