

METROVA LC Series

Outdoor Liquid-Cooled BESS 261kWh–417kWh

Product Description

The Metrova LC Series is a modular DC-side battery energy storage solution designed for industrial, commercial, and large-scale energy storage applications. The system integrates battery energy storage units, BMS, liquid cooling, fire protection, and external communication interfaces within a compact outdoor cabinet.

Designed for connection with external PCS and EMS systems, it supports applications such as peak shaving, valley filling, photovoltaic energy storage, frequency regulation, microgrids, and emergency backup power. Its liquid cooling design provides precise thermal management, helping improve system efficiency, safety, and service life.



Certified Performance
Compliant with major international safety and performance standards.

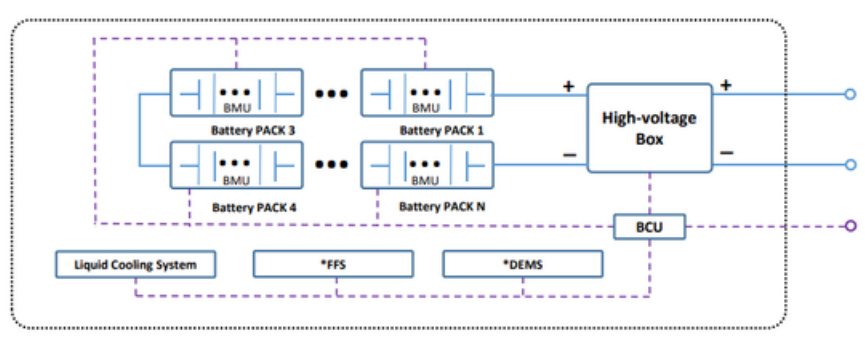
Built-In Safety
Cell-level monitoring with integrated fire suppression and pressure relief protection.

Flexible Configuration
Modular and scalable design supporting parallel system expansion.

Precision Temperature Control
Modular containerised design for simplified installation, maintenance, and scalable deployment.

Additional Key Features

- Precise liquid cooling temperature control with system temperature difference $\leq 3\pm 1.5^\circ\text{C}$
- Modular structure with flexible expansion and multi-cabinet parallel support for MW-level DC systems
- Supports connection with external PCS and EMS systems
- RS485, CAN, and Ethernet communication interfaces
- High system efficiency with improved thermal management and longer service life



----- Leach Equipment - - - - - Communication Line _____ DC Power Line
*DEMS: Dynamic Environment Monitoring System; *FFS: Fire Fighting System

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Applications

- Industrial and commercial energy storage
- Photovoltaic energy storage systems
- Peak shaving and valley filling
- Frequency regulation
- Microgrid applications
- Emergency backup power
- Large-scale energy storage projects

Technical Specifications

Item	METROVA LC 261	METROVA LC 313	METROVA LC 365	METROVA LC 417
Cell Type	LFP 3.2V / 314Ah			
Battery PACK Type	IP52S			
Cluster Configuration	1P260S / 5 PACK	1P312S / 6 PACK	1P364S / 7 PACK	1P416S / 8 PACK
Nominal Energy	261kWh	313kWh	365kWh	417kWh
Nominal Voltage	832V	998.4V	1164.8V	1331.2V
Battery Voltage Range	728V–936V	873.6V–1123.2V	1019.2V–1314V	1164.8V–1497.6V
Dimensions (W×D×H)	1360×1350×2400mm	1360×1350×2400mm	1360×1350×2400mm	1360×1350×2400mm
Weight	Approx. 2865kg	Approx. 3215kg	Approx. 3565kg	Approx. 3915kg
IP Level	IP55 battery compartment			
Corrosion Protection	C3			
Altitude	2000m, derating above 2000m			
Operating Temperature	-20°C to +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			
Communication Interface	RS485, CAN, Ethernet			

**Specifications are subject to change without prior notice*