

Liquid Cooling Energy Storage System

ORI-P7500B15045L-2H

ORI-P5000B10030L-2H





High Efficiency

- Pre-assembled products for rapid installation
- Factory pre-commissioning saving 50%+ time
- Cluster-level management, +8% system available energy



Ultimate Safety

- Anti-condensation design for battery pack and container
- Advanced thermal and electrical isolation safeguards for secure operations and long-term ROI
- 4-Level breaking protection for full-link risk control



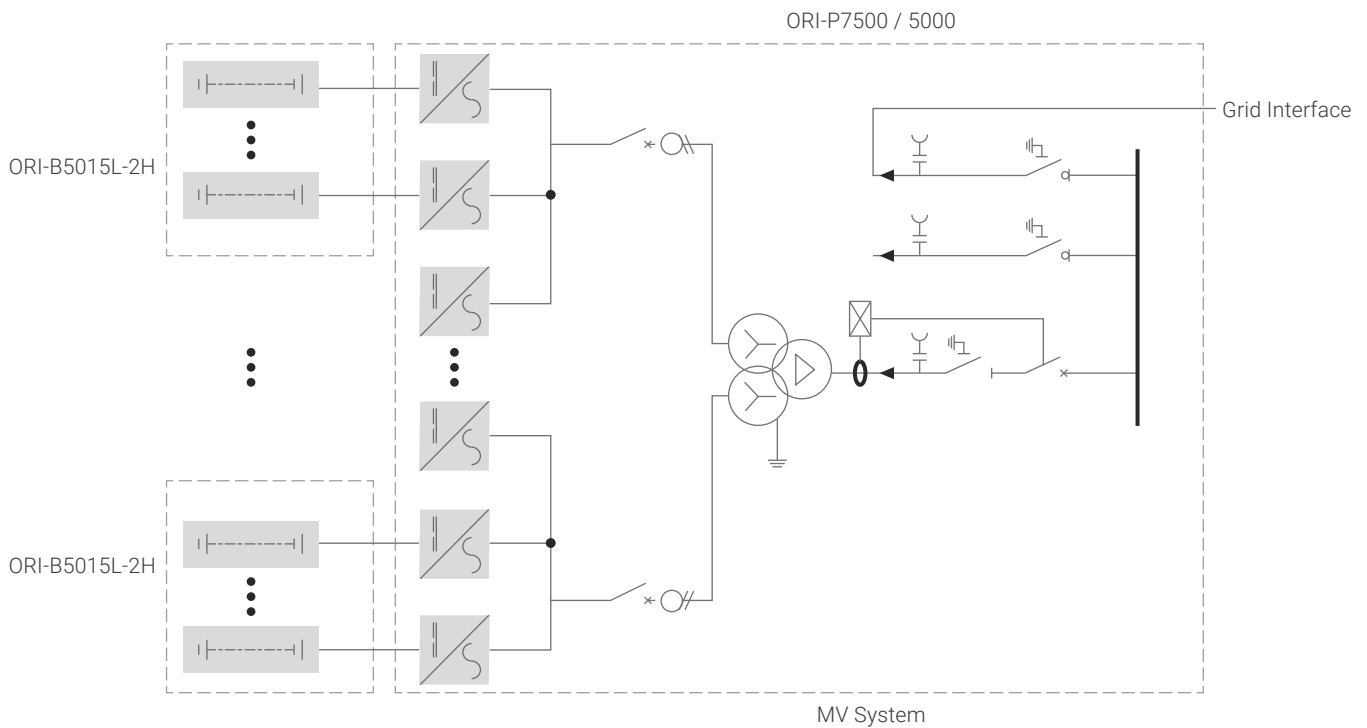
Robust Reliability

- Full-stack self-developed 3S (PCS, EMS, BMS) enables stable operation
- IP66 for PCS and C4 anti-corrosion protection handle harsh conditions
- Smart Liquid cooling control ensures $\leq 3^{\circ}\text{C}$ uniformity, battery lifecycle+10%



Worry-free O&M

- Intelligent BMS management with 10ms-level data monitoring
- Rapid maintenance with 1-hour part replacement
- Smart controller for one-click system upgrade



2/4-hour energy storage solution:

One ORI-P5000 can be paired with 2/4 unit of ORI-B5015L-2H to form a 2H/4H BESS

One ORI-P7500 can be paired with 3/6 unit of ORI-B5015L-2H to form a 2H/4H BESS

Liquid Cooling Battery Energy Storage System



ORI-B5015L-2H

DC SIDE	
DC rated voltage	1331.2 V
DC voltage range	1123.2 ~ 1497.6 V
Pack composition	1P416S × 12
Cell type	LFP 314 Ah / 3.2 V
Battery pack type	314 Ah / 332.8 V
Battery cluster type	314 Ah / 1331.2 V
Rated energy capacity	5015 kWh
GENERAL	
Cooling method	Liquid cooling
Operation temperature range	-30 ~ 50°C
Storage temperature range	-30 ~ 60°C
Operation humidity range	≤ 100% RH (non-condensing)
Charge & discharge rate	0.5 P
Max. operating altitude	≤ 4000 m
Dimensions (W × H × D)	6058 × 2896 × 2438 mm
Container weight	≤ 43 t
Protection level	IP55 C4 (optional C5)
Configuration of safety	Gas fire suppression + Water-based fire suppression + Ventilation (optional explosion-proof plates)
Communication interface	RS485, Ethernet, CAN
Communication protocol	Modbus TCP/RTU, IEC 104, IEC 61850
Certificates and approvals	IEC 62477, IEC 62619, IEC 63056, IEC 60730, IEC 62933, UL9540A, IEC61000, UN38.3

String PCS and Transformer Station



ORI-P7500

ORI-P5000

DC SIDE		
Max. DC voltage	1500 V	
Rated DC power	215 kW × 36	215 kW × 24
DC voltage range	1000 ~ 1500 V	
AC SIDE		
Rated AC power	7500 kVA	5000 kVA
Rated AC voltage	10 ~ 35 kV	
Rated AC frequency	50 Hz	
THDi (rated power)	< 3%	
Adjustable power factor range	-1 ~ +1	
GENERAL		
Isolation method	Oil-immersed transformer	
PCS maximum efficiency	99%	
Ingress protection	IP66 (PCS) / IP54 (Cabinet body)	
Operating temperature range	-30 ~ 50°C(derated above 45°C)	
Relative humidity	≤ 100% RH (non-condensing)	
Max. operating altitude	≤ 2000 m (optional: 4000m)	
Communication interfaces	RS485 / CAN / Ethernet	
Dimensions (W × H × D)	12192 × 2896 × 2438 mm	
Container weight	≤ 34.5 t	≤ 29.5 t
Certificates and approvals	IEC61000, IEC 60076, IEC62271	