

Liquid Cooling Energy Storage System

ORI-P2500B5015L-2H





High Efficiency

- Factory pre-assembly for rapid on-site 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



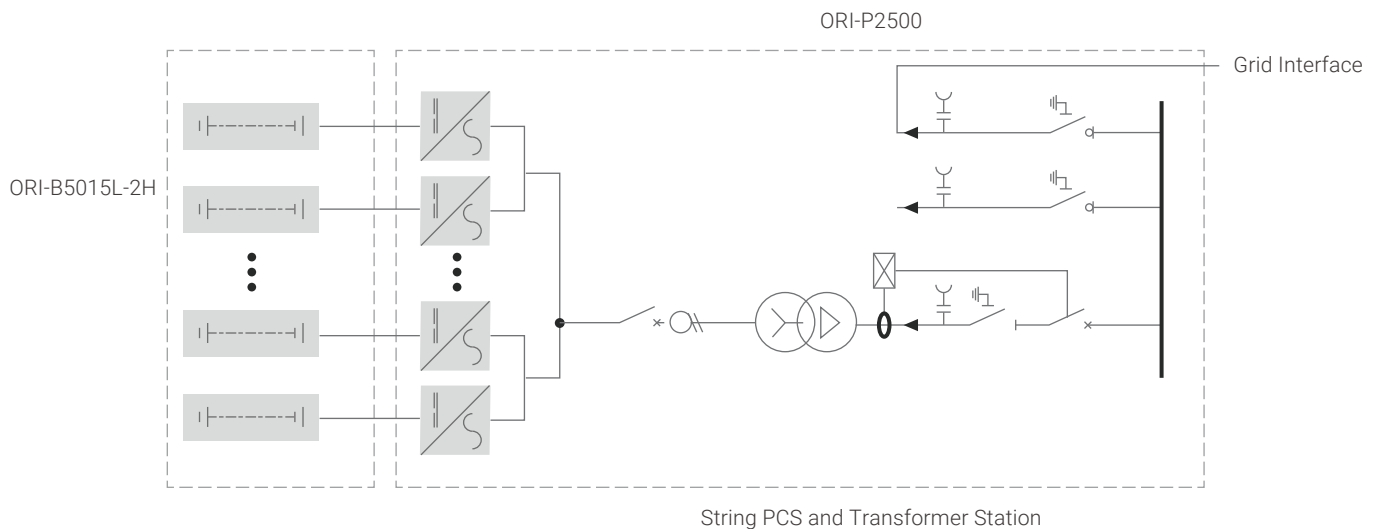
Robust Reliability

- 2-hour fire-rated cabinets for maximum safety assurance
- 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-P2500 can be paired with 1/2 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 structure	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-P2500

DC SIDE	
Max. DC voltage	1500 V
Rated DC power	215 kW × 12
DC voltage range	1000 ~ 1500 V
AC SIDE	
Rated AC power	2500 kVA
Rated AC voltage	6 ~ 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)	6058 × 2896 × 2438 mm
Container weight	≤16 t
Certificates and approvals	IEC61000, IEC 60076, IEC62271