

Liquid Cooling Energy Storage System

ORI-P7500B15045L-2H

ORI-P5000B10030L-2H





Fast Deployment

- One-stop service with streamlined coordination
- Pre-installed components for rapid setup
- Factory pre-commissioning halves debugging time



High Efficiency

- Intelligent clusters maximize output and efficiency
- Liquid cooling ensures $\leq 3^{\circ}\text{C}$ temperature uniformity
- Smart controls lower energy and maintenance costs
- Compact design reduces space and construction demands



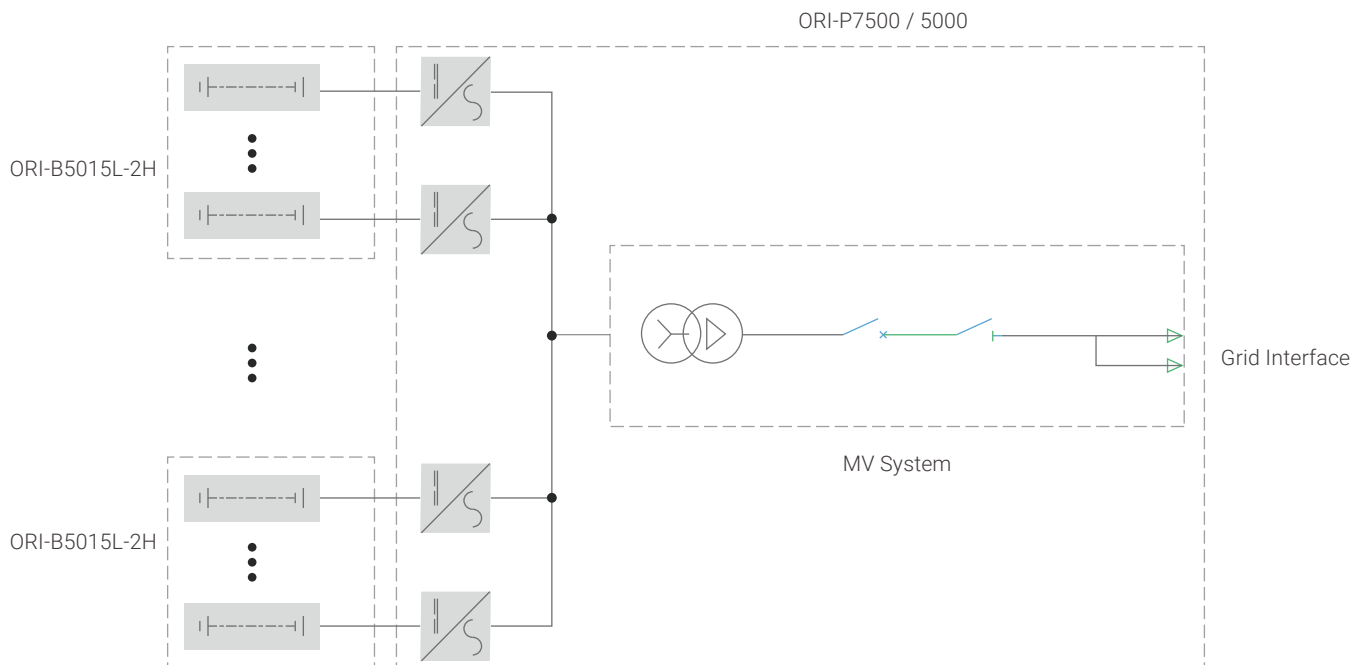
Advanced Safety

- Multi-level monitoring ensures system reliability
- Fire-resistant compartments prevent thermal runaway
- Integrated detection and suppression for rapid risk control



System Flexibility

- Modular design enhances uptime and scalability
- IP55 outdoor cabinet and IP66 components handle harsh conditions
- Rapid maintenance with 1-hour part replacement



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

String PCS and Transformer Station



ORI-P7500

ORI-P5000

DC SIDE		
Max. DC voltage	1500 V	
Rated DC power	215 kW × 36	215kW × 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 / 60 Hz	
THDi (rated power)	< 3%	
Adjustable power factor range	-1 ~ +1	
GENERAL		
Isolation method	Dry-type / Oil-immersed transformer	
PCS maximum efficiency	99%	
Ingress protection	IP66 (PCS) / IP54 (Cabinet body)	
Operating temperature range	-30 ~ 50°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