Containerized Battery Energy Storage System

HoyDC 5MWh

Cost-effective and Efficient

- Higher energy density with a reduced footprint, achieving 15% savings in construction costs.
- DC-Side Intelligent liquid cooling reduces auxiliary power consumption and extends lifespan.

Safe and Reliable

- Multi-layer insulation and four-level short-circuit protection enhances safety and reliability.
- A multi-level water fire suppression system integrated with pressure relief design ensures rapid response to fire and explosion.
- Proactive detection capability enables early identification of thermal runaway and prevents its propagation.

Scalable and Optional

- IP55 combined with stable high-altitude operation ensures adaptability to multiple harsh environment.
- Supports multi-unit parallel connection for scalable system power expansion.

Smart and Friendly

- Unified interface to simplify the delivery process.
- Automatic fluid replenishment, no manual intervention.
- Big data analytics enables proactive anomaly detection and resolution, reducing O&M frequency.

Technical Specifications

Model	HoyDC 5MWh
DC Side	
System Configuration	1P416S*12
Rated DC Voltage	1331.2 V
Voltage Range	1164.8 V - 1500 V
Rated Energy	5 MWh
Rated Charge / Discharge Power	0.5P
System Data	
Operating Temperature Range	-30°C to 55°C
Storage Temperature Range	0°C to 40°C
Relative Humidity	5% to 90%RH (non-condensing)
Altitude	≤ 2500 m
Dimensions (W × D × H)	6058 mm × 2438 mm × 2896 mm
Weight	About 43T
Ingress Protection	IP55
Corrosion Ingress Protection	C4, C5 (Optional)
Thermal Management Method	Liquid Cooling
Fire Protection System	Aerosol + Water Fire Suppression
Cycle Life	≥ 8000 cycles @70%SOH, 2.5 ± 3°C
Standard and Regulation	
Communication Interface	CAN, RS485, Ethernet
Communication Protocol	Modbus, IEC 61850
Certification	UL1973, UL9540A, IEC62619, IEC62477-1, UN38.3

* Subject to change without notice.

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