

5MW PCS / 10MWh Battery Container

Liquid Cooling Commercial & Industrial Container ESS

Cost Reduction and Efficiency Improvement
High system efficiency with 2% improvement in cycle efficiency
Compact 2.5MW/10MWh Block design with small footprint
Full liquid-cooled intelligent temperature control, extended system lifespan, and lower auxiliary power consumption

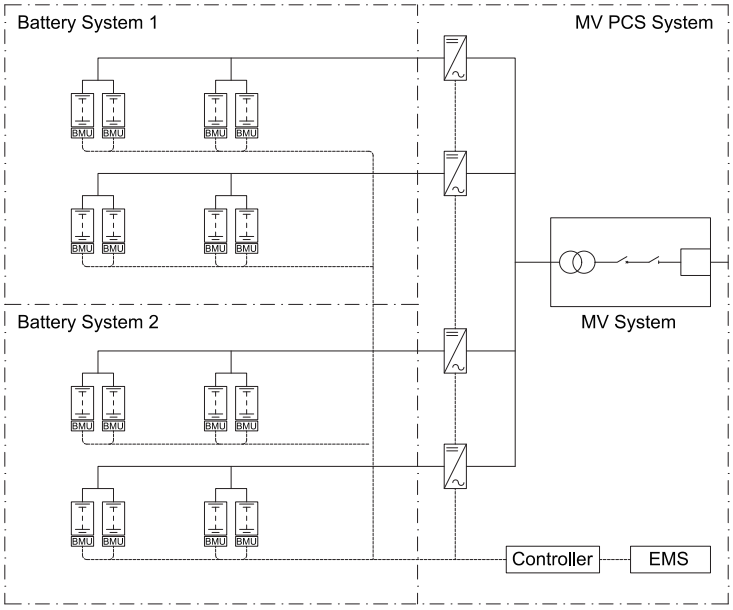
Safe and Reliable
Multi-layer water-based fire protection design for rapid thermal runaway suppression
Top venting design to prevent combustion and explosion risks
AI-based cell health management with early warning for faulty cells

High Efficiency and Flexibility
Strong environmental adaptability for extreme condition applications
Modular PACK/PCS design to minimize fault impact and ensure high system uptime
Efficient liquid cooling for synchronized improvement in battery lifespan and system discharge capacity

Convenient Operation and Maintenance
"One-click full-station upgrade" completes upgrades for all subsystems in 20 minutes
Automatic fluid replenishment, eliminating the need for homo sapiens labor in fluid replenishment (SOC)
Smart calibration without requiring shutdown operations

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Electrical schematic diagram

	Model	SKTESS10000-5000K
Battery	Battery Type	LiFePO4
	Cell Capacity	314Ah
	Battery Configuration	1P4992S*2
	Nominal Energy	5015kWh*2
	Nominal Voltage	1331.2V
	Operating Voltage Range	1123.2~1497.6V
	Max.Continuous Charge / Discharge Current	157A
	Charge / Discharge Rate	0.5P
	Cycle Life	≥ 6000 (@25°C ± 2°C , 0.5P / 0.5P, 70% EOL)
System	Max. AC Output Power	5000kW
	Grid Type	3L / PE
	AC Output Frequency	50 / 60HZ
	AC Output Voltage	Supports voltage ratios of 6 / 10 / 12 / 24 / 33 / 35kV
	Ingress Protection	IP54
	Anti-Corrosion Grade	C3 (C4 Optional)
	Max. System Efficiency	88%
	Charging Operating Temperature	0°C ~45°C
	Discharge Operating Temperature	-20°C~50°C
	Relative Humidity	5~95 % (non-condensing)
	Max. Working Altitude	3000(＞2000m derating)
	Communication	Modbus TCP, IEC104
	Cooling	Liquid Cooling (Battery cabinet)
	Dimension	6058 × 2438 × 2896 mm ×3
	Net Weight	42.5T ×2+23.5T

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