

250kW/259kWh Containerized Energy Storage System

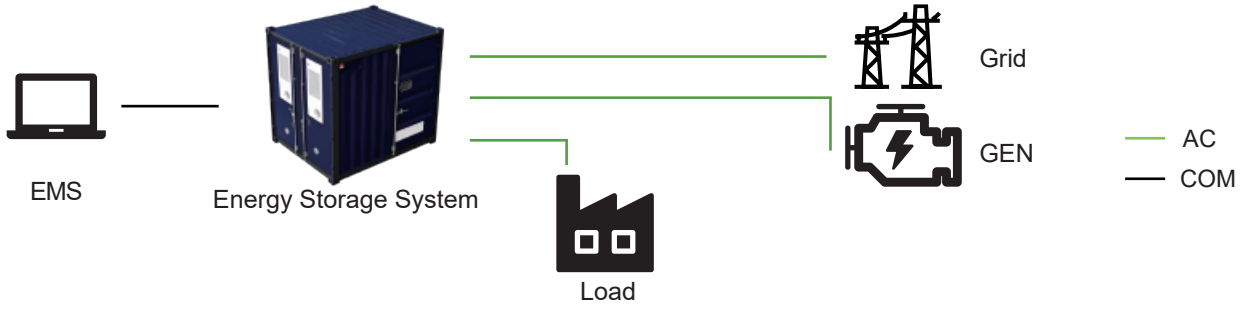
Air Cooling Commercial & Industrial Container ESS

High Integration & Rapid Deployment
10ft standard container integrates 259.2kWh battery and 250kW inverter. Compatible with multiple transport options for fast on-site commissioning and shortened installation cycles.

Reliable Environmental Adaptability
IP54 rating; galvanized steel enclosure with anti-corrosion coating for dust, water, corrosion and impact resistance.
BMS MTBF: 40,000 hours for stable operation under harsh outdoor conditions.

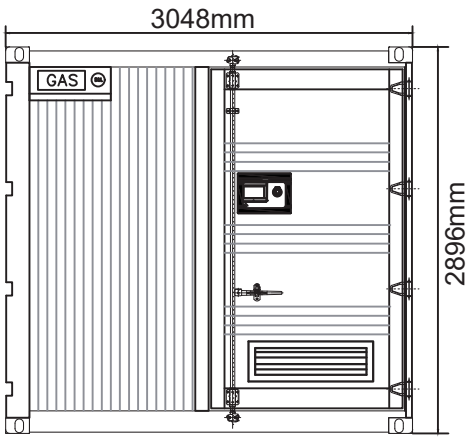
Comprehensive Safety Protection
Three-level hardware + three-level BMS software protection for battery clusters. Independent aerosol fire suppression in electrical compartment, interlocked with explosion-proof exhaust fans for early thermal runaway warning and mitigation. Isolation transformer delivers galvanic isolation between DC storage and AC grid, blocking cross-side fault current & EMI, and safeguarding personnel during maintenance.

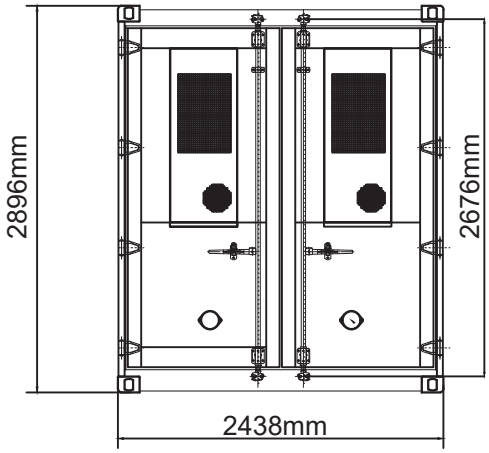
Intelligent & Efficient Control
3-tier BMS with 100mA passive balancing. EMS supports 5 operation modes and multi-interfaces (RS485/CAN/Ethernet).
Total current THD: 2% for maximum energy-use efficiency.



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	Model	SKTESS259-250K
Battery	Cell Specification	LiFePO4/125Ah/3.2V
	Nominal Capacity	375Ah
	Pack Configuration	9.6kWh / 1P24S
	Nominal Energy	259.2kWh/3P216S
	Nominal Voltage	691.2V
	Operating Voltage Range	583.2~777.6V
	Max.Continuous Charge /Discharge Current	375A
	Charge /Discharge Rate	1C
	Cycle Life	≥ 3000(@25 ± 2°C , 1C / 1C, 70% EOL)
AC	Rated Output Power	250kW
	Rated Voltage	480V
	Rated Output Current	301A
	Grid Voltage Range	384~552V
	Maximum Apparent Power	275kVA
	Rated Frequency	50/60Hz
	THDi (On-grid / Grid-tied)	≤3%
	THDu (Off-grid / Stand-alone)	≤1% linear or ≤5% non-linear
	Power Factor	1lagging-1leading（Settable）
	Overload Capacity	110%long-term
	Grid Type	3W+N+PE
	Transformer ratio	480
	On-grid / Off-grid Switching	Automatic
General	Fire Suppression System	Aerosol
	Noise Level	<75
	Ingress Protection	IP54
	Anti-Corrosion Grade	C3
	Max.System Efficiency	88%
	Charging Operating	0°C~55°C
	Discharge Operating Temperature	-20°C-55°C
	Relative Humidity	5-95%(non-condensing)
	Max.Working Altitude	3000(>2000m derating)
	BMS Communication	Modbus TCP,IEC104
	Local Communication	RS485/ Ethernet
	Battery cabinet Cooling	Intelligent Air Cooling
	Dimension	3048x2438x2896mm
	Net Weight	≈7.1T

Specifications are subject to change without further notification
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