

500kW/1.12MWh Containerized Energy Storage System

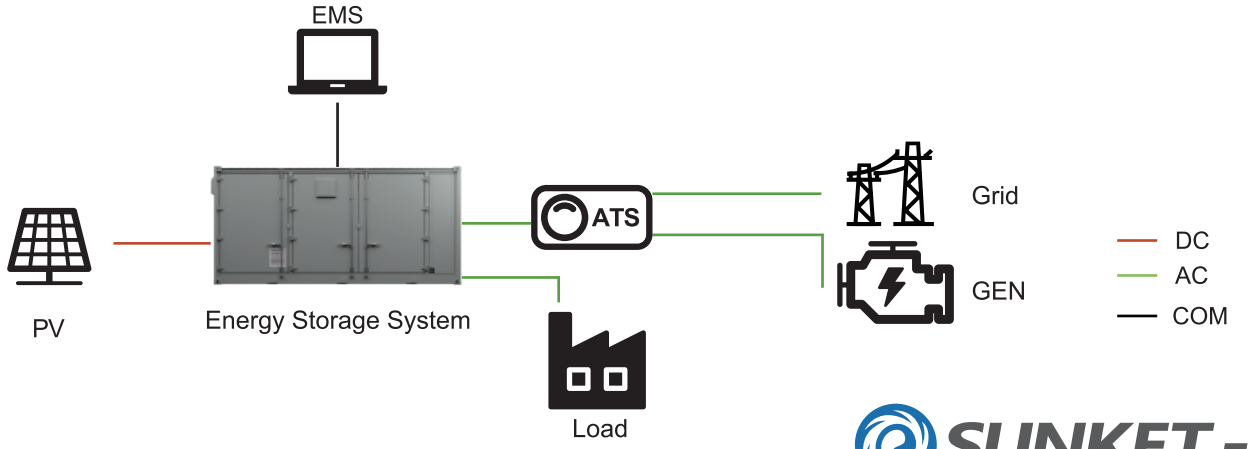
Air Cooling Commercial & Industrial Container ESS

High Integration & Rapid Deployment
20-foot standard container integrating 1.12MWh battery capacity and 500kW inverter; compatible with multi-modal transport, enabling fast on-site commissioning and shortened installation cycle.

Robust Environmental Adaptability
IP54 protection rating; RAL7035 anti-corrosion coated galvanized steel enclosure with dustproof, waterproof, corrosion-resistant and shockproof design; BMS MTBF ≥ 40,000h for reliable harsh outdoor operation.

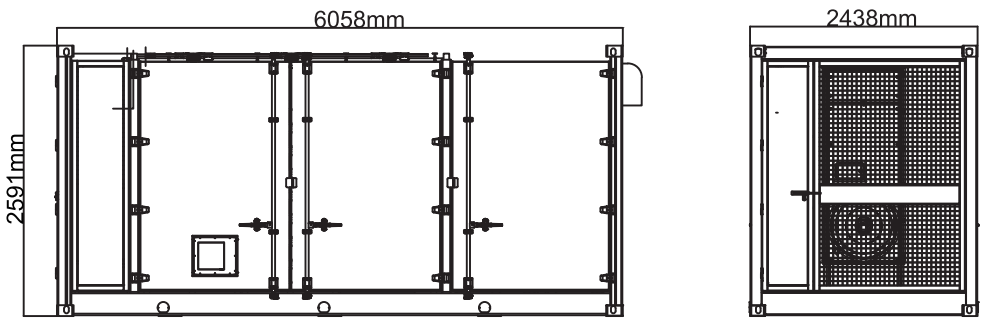
Comprehensive Safety Protection
Three-level hardware protection for battery clusters + three-level BMS software protection; independent heptafluoropropane fire suppression in electrical cabin, interlocked with explosion-proof exhaust fans for early thermal runaway warning and containment.

Intelligent & Efficient Control
Three-level BMS architecture with ≤ 100mA passive balancing; EMS with 5 operation modes and multiple interfaces (RS485/CAN/Ethernet); total current THD ≤ 2% for maximized energy utilization efficiency.



SUNKET - ESS

SUNKET - ESS



	Model	SKTESS1120-500K
Battery	Battery Type	LiFePO4/314Ah/3.2V
	Nominal Capacity	1570Ah
	Battery Pack Configuration	16.0768kWh / 1P16S
	Battery Nominal Energy	1125.376kWh/5P224S
	Nominal Voltage	716.8V
	Operating Voltage Range	627.2~795.2V
	Max.Continuous Charge /Discharge Current	157Ah
	Charge /Discharge Rate	0.5P
	Cycle Life	≥ 6000(@25 ± 2°C , 0.5C / 0.5C, 70% EOL)
AC	Rated Output Power	500kW
	Rated Voltage	400V
	Rated Output Current	722A
	Grid Voltage Range	320~460V
	Maximum Apparent Power	550kVA
	Rated Frequency	50/60Hz
	THDi (On-grid / Grid-tied)	≤3%
	THDu (Off-grid / Stand-alone)	≤1% linear or ≤5% non-linear
	Power Factor	1.0 (0.8 lead ~ 0.8 lag, adjustable)
	Overload Capacity	110% continuous, 120% for 1 min
	Grid Type	3W+N+PE
	On-grid / Off-grid Switching	Support
PV	Maximum PV Input Voltage	1000V
	Maximum PV Power	660 / 742.5 / 825kW
	MPPT Operating Voltage Range	250~1,000V
	Number of MPPT Modules	8/9/10
General	Display / Touchscreen Display	Touch LCD Display
	Fire Suppression System	FM-200 Fire Suppression System / Novec 1230 Fire Suppression System /Water Sprinkler System
	Noise Level	<75
	Ingress Protection	IP54
	Anti-Corrosion Grade	C3(C4 Optional)
	Max.System Efficiency	88%
	Charging Operating	0°C~45°C
	Discharge Operating Temperature	-20°C-50°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	6058×2438×2591mm
	Net Weight	≤25T

sunket.com
sales@sunket.cn

Specifications are subject to change without further notification
SKT-EN-2026V1.0 ©Copyright 2026 Sunket