


# 500kW/1.12MWh Containerized Energy Storage System

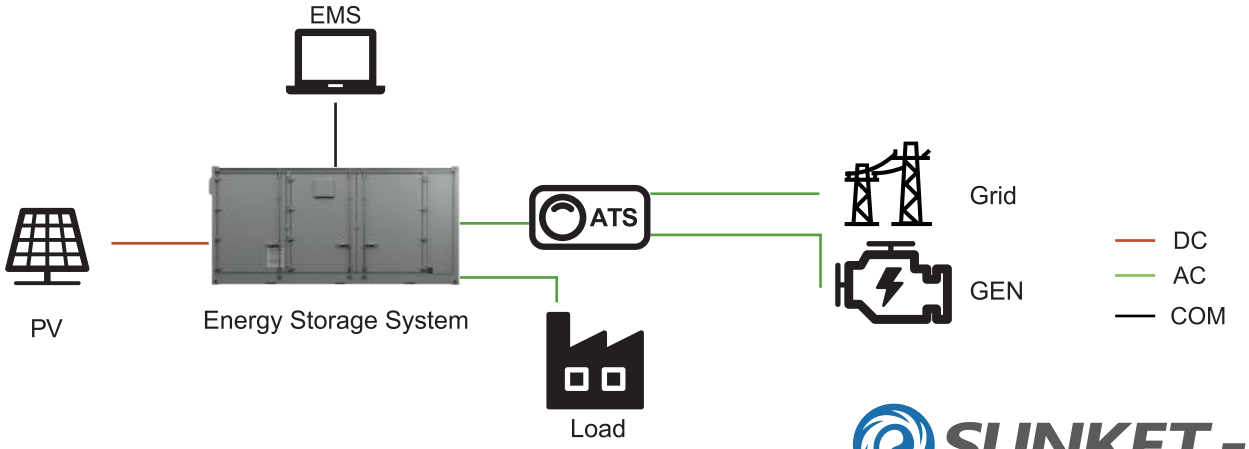
## Air Cooling Commercial & Industrial Container ESS

**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.

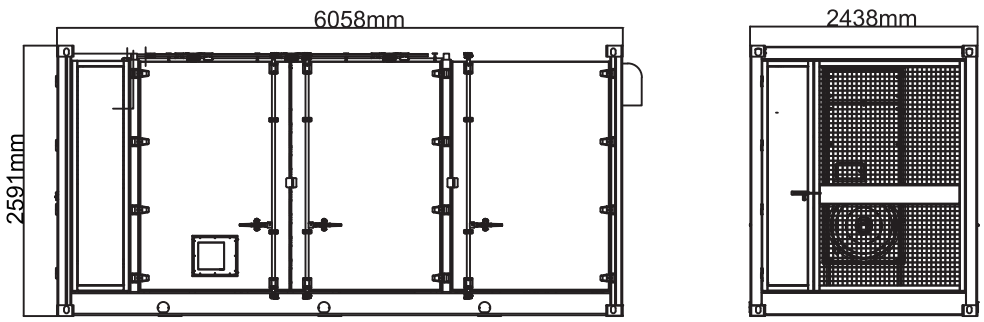
**Comprehensive Safety Protection**
Three-level hardware protection for battery clusters + three-level BMS software protection; independent heptafluoropropane fire suppression in electrical cabin, interlocked with explosion-proof exhaust fans for early thermal runaway warning and containment.

**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.




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| | 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 |

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Specifications are subject to change without further notification
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