

C&I Series



i-TANK MINI

AIR COOLED C&I ENERGY STORAGE SYSTEM

128 kWh
Energy Capacity



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More Info.

128 kWh Battery Energy Storage Cabinet

Key Features:

-  Long-life LFP Cells — $\geq 6,000$ Cycles @ 70% SOH, 10-year Design Life
-  Comprehensive Protection — Over/under-voltage, Over-current, Short-circuit And Temperature Protection With E-stop
-  Aerosol-based Fire Suppression With Integrated Fire Detection For Enhanced Cabinet Safety
-  Grid-tied & Standalone Operation — Grid-connected, Off-grid And Backup Modes Supported
-  All-in-one Cabinet With Battery Packs, BMU/BMS, Hybrid Inverter And Fire Suppression In One Unit
-  Forced-air Cooling With Integrated HVAC — 3kW Capacity For Optimal Cell-level Temperature Control

TECHNICAL PARAMETERS	
SYSTEM PARAMETERS	
Energy Capacity	128 kWh
Nominal System Voltage	409.6 V DC
Voltage Range	332.8 V - 460.8 V DC
Rated Capacity	314 Ah
Max. Charge / Discharge Rate	0.5P / 0.5P
Round-trip Efficiency	≥90%
System Topology	Compatible with 30 kW to 60 kW Hybrid inverter
Auxiliary Power Consumption	≤2.5 kW
Operating Modes	Grid-connected / Off-grid / Backup (as applicable)
BATTERY PARAMETERS	
Cell Type	Prismatic LFP
Cell Capacity	314 Ah
Cell Voltage (Nominal)	3.2 V
Series Configuration Per Pack	1P16S / 51.2 V
Number of Battery Packs	8 * 1P16S (1P 128S)
Total Cells	128 cells
Energy Per Pack	16.08 kWh
Cell Cycle Life (to 70% SOH)	≥6,000 cycles @ 70% SOH
Expected System Life	10 years (typical C&I duty)
THERMAL MANAGEMENT	
Cooling Type	Forced-air cooling with integrated HVAC
Cooling Capacity	3 kW
Refrigerant	R134a
HVAC Operating Temperature Range	-30°C ~ 55°C
Battery Operating Temperature	0°C to +55°C (optimal 10~45°C)
Temperature Monitoring	Cell-level temperature monitoring with integrated HVAC system for maintaining optimal internal cabinet temperature
PHYSICAL	
Product Dimensions (W × D × H)	1140 * 1100 * 1950 mm (without Canopy) 1735 * 1100 * 1950 mm (with Canopy)
Cabinet Weight	≈1.5 t
Battery Pack Weight	<110kg per pack
Chiller Unit Weight	≈70 kg
IP Rating	IP54
Altitude	≤4000 m, derating above 2000 m
BMS & SAFETY	
BMS	Integrated two-level BMS for pack and system monitoring and protection
Protection Functions	Over-voltage, under-voltage, over-current, short-circuit, over-temperature and under-temperature protection
Emergency Stop	Integrated emergency shutdown / E-stop
Fire Protection	Integrated fire detection and aerosol-based fire suppression system
WARRANTY & SUPPORT	
Warranty	5-year battery · 12-24 months balance-of-system
Support	24/7 technical support · remote diagnostics · on-site ≤48 h (critical faults)