

C&I Series



i-TANK

AIR COOLED C&I ENERGY STORAGE SYSTEM

208 kWh
Energy Capacity



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208 kWh Battery Energy Storage Cabinet

Key Features:

-  Long-life LFP Cells — ≥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
-  Forced-air Cooling — 3kW Cooling Capacity For Optimal Cell-level Temperature Control
-  All-in-one Cabinet With Battery Packs, BMU/BMS, Hybrid Inverter And Fire Suppression In One Unit

TECHNICAL PARAMETERS	
SYSTEM PARAMETERS	
Energy Capacity	208 kWh
Nominal System Voltage	665.6 V DC
Voltage Range	DC 540.8 V - 748.8 V
Rated Capacity	314 Ah
Max. Charge / Discharge Rate	0.5P / 0.5P
Round-trip Efficiency	≥90%
System Topology	Compatible with 30kW to 80kW 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	13 * 1P16S (1P 208S)
Total Cells	208 cells
Energy Per Pack	16.08 kWh
Cell Cycle Life	≥6,000 cycles @ 70% SOH
Expected System Life	10 years (typical C&I duty)
THERMAL MANAGEMENT	
Cooling Type	Forced Air Cooling
Cooling Capacity	3 kW
Refrigerant	R134a
HVAC Operating Temperature Range	-30°C ~ 55°C
Battery Operating Temperature	-10°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 * 2470 mm (without Canopy) 1735 * 1100 * 2470 mm (with Canopy)
Cabinet Weight	≈2.2t
Battery Pack Weight	<110kg
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 aerosol-based fire suppression system for enhanced fire safety and protection
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)