Liquid cooling
1MW/2.089MWh
Integrated Container BESS

C&I BESS Cabinet Solution

Model	HC-UPSA2089L 1MW/2.089MWh
AC (On-grid)	
Rated Power	1MW
Rated Voltage	400V
Max. imum Current	1672A
Wiring Method	3P3W
Frequency	50Hz/60Hz
Power Factor	1 (Leading)~1 (Lagging)
THDi	<3% (Rated Power)
AC (Off-grid)	
Rated Power	1MW
Rated Voltage	400V
Max. imum Current	1672A
Wiring Method	3P3W
Frequency	50Hz/60Hz
Switch Time	<20ms
Battery	
Cell Type	LiFePO4
Battery Cell	3.2V/314Ah
Battery Pack	1P52S
Battery Pack Quantity	5 Packs/Cluster
Battery Cluster Quantity	8 Clusters
Rated Current	157A*8
Voltage Range	702V~936V
Rated Capacity	2.089MWh
System	
Weight	≤30T
Dimensions (W/D/H)	6058*2438*2896mm+900*1000*2000mm
RTE	≥85%
Temperature	-20℃~50℃ (>45℃ De-Rating)
Humidity	5%~95%RH (Non-Condensation)
IP Rating	IP54
Anti-corrosion Rating	C4
Cooling Method	Liquid Cooling
Noise	≤75dB
Attitude	2000m
Display	LCD
Fire Suppression Agent	FM-200/FK-5-1-12
Communication	CAN / RS485 / WiFi / Ethernet
Certification	CE,UN38.3
Charge/Discharge Rate	0.5CP
Depth Of Discharge	90%
Cell Cycle Life	≥8000 Cycles (80%SOH @Standard)

Split-Container Flexibility

Main container + 2×auxiliary cabinets design allows flexible site arrangement, supports parallel connection for larger capacity

Fully Liquid-Cooled Thermal System

Full liquid cooling system ensures uniform cell temperature, 0.5C continuous operation without derating up to 45°C

Fast Grid-Forming Switching

Supports standalone off-grid operation and microgrid applications

Multi-Standard Safety Compliance

CE/UN38.3 certified, FM-200/FK-5-1-12 fire suppression, IP54 protection rating compliant with requirements in most countries.

Optimized LCOE

≥85% RTE, ≥8000 cycles at 80% SOH, minimizing levelized cost of energy storage

System Diagram