

Air Cooling 500kW/1205kWh PV+Battery Integrated Container BESS

C&I BESS Cabinet Solution



All-in-One Containerized Design

500kW/1205kWh fully integrated 20ft container, pre-commissioned at factory for plug-and-play site installation



Industrial-Grade Climate Control

Built-in 25kW cooling + 9kW heating industrial HVAC, IP54 enclosure, C4 anti-corrosion for industrial environments



Multi-MPPT PV Integration

480kW total PV capacity across 16 strings (4 MPPT × 4 strings), suitable for distributed installation



On/Off-Grid Seamless Switching

Dual-mode operation with ≤2% THDu in off-grid, supports standalone backup and microgrid applications



Rapid Site Deployment

Standard 20ft container form factor enables quick transport and crane-lift installation; front/side access design simplifies routine maintenance

Model	HC-UPSAP1205 500kW/1205kWh
AC (On-grid)	
Rated Power	500kW
Max. imum Current	794A
Rated Voltage	400V
Wiring Method	3P4L+PE
Frequency	50Hz/60Hz
Power Factor	1 (Leading)~1 (Lagging)
THDi	≤3% (Rated Power)
AC (Off-grid)	
Rated Power	500kW
Rated Voltage	400V
Max. imum Current	794A
Wiring Method	3P4L+PE
Frequency	50Hz/60Hz
THDu	≤2% (Linear Load)
Battery	
Cell Type	LiFePO4
Battery Cell	3.2V/314Ah
Battery Pack Configuration	IP16S
Battery Pack Quantity	15 Packs/Cluster*5
Rated Current	157A*5
Voltage Range	648~864V
Rated Capacity	1205.76KWh
PV	
Rated Power	120kW*4
PV open circuit Voltage range	200V-900V
MPPT Voltage range	200V-850V
Rated Voltage	600V
Starting Voltage	250V
PV input number	4*4
Max. imum PV current	(50A+50A+50A+50A)*4
Short-circuit current	(60A+60A+60A+60A)*4
System	
Weight	15T
Dimensions (W/D/H)	6058*2438*2896mm
RTE	≥85%
Air Conditioning Power	25kW (Cooling),9kW (Heating)
Temperature	-20°C ~ 50°C (>45°C De-Rating)
Humidity	5%~95%RH (Non-Condensation)
IP Rating	IP54
Anti-corrosion Rating	C4
Cooling Method	Air Cooling
Noise	≤75dB
Atitude	2000m
Display	HMI
Fire Suppression Agent	FM-200
Communication	CAN / RS485 / WiFi / Ethernet
Certification	CE,UN38.3
Rated Charge/Discharge C-rate	0.5CP
Depth Of Discharge	90%DOD
Cell Cycle Life	≥8000 Cycles (80%SOH @Standard Cycle)

System Diagram

