

Liquid Cooling 125kW/261kWh PV+Battery ESS All-in-one Cabinet

C&I BESS Cabinet Solution



Multi-Unit Parallel Operation

Flexible modular platform, support parallel connection of multiple units for multi-MWh utility-scale systems



AC-Coupled Flexible Integration

120kW PV input for hybrid systems, AC-coupled architecture compatible with existing solar installations



Global Certification Ready

Pre-certified for EN 50549 series, VDE-AR-N 4105/4110/4120, G99, and 30+ European grid codes



Advanced Liquid Cooling System

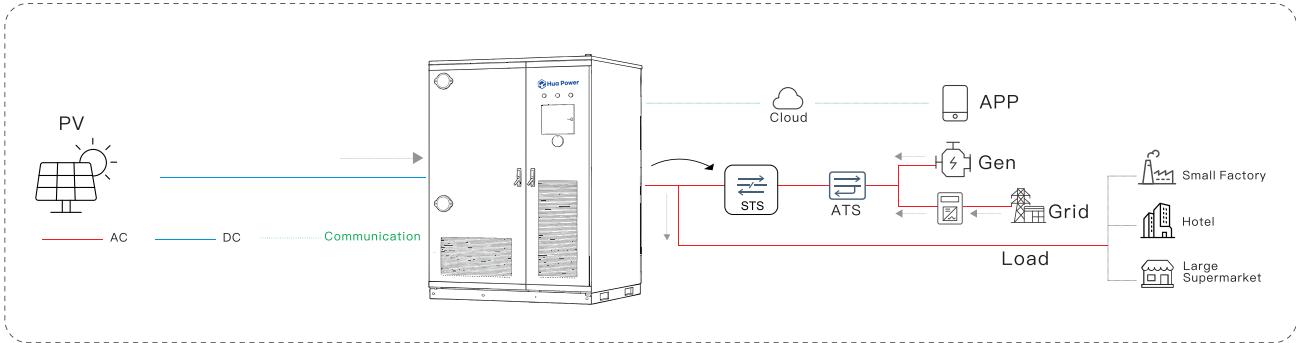
Intelligent liquid cooling system ensures optimal thermal performance; full-power operation to 45°C



Multi-Level Safety Design

Aerosol/FK-5-1-12 fire suppression, IP54 ingress protection, multi-layer electrical and thermal safeguards

System Diagram



Model	HC-UPSAP261L	HC-UPSA261L
	125kW/261.248kWh	
Grid Side (On-grid)		
Rated Output Power	125kW	
Max. Output Power	138kW	
Max. Output Current	200A	
Rated Voltage	230V/400V	
Voltage Range	-15%~15%	
Connection Type	3P3L/3P4L+PE	
Rated Grid Frequency	50/60Hz (±5Hz)	
Power Factor	1 (Leading)~1 (Lagging)	
THDi	<2% (Rated Power)	
DC Component	<0.5%	
Overload	110% Long-term	
Max. Efficiency	98.50%	
Grid Support	LVRT/HVRT,Active/Reactive Power Control	
Grid Side (Off-grid)		
Rated Output Power	125kW	
Max. Output Power	138kVA	
Max. Output Current	200A	
Rated Output Voltage	230V/400V	
THDu	<3% (Rated Power)	
Rated Frequency	50/60Hz (±5Hz)	
PV		
Max. Usable PV Input Power	120kW	/
Recommended Max. PV Array Size	120kW	
Max. Input Voltage	1000V	
MPPT Voltage Range	200V~950V	
Full Load MPPT Voltage Range	500V~900V	
Max. Input Current	50A/50A/50A/50A	
MPPT Number/Max. Input Strings Number	1/4	
Battery		
Cell Type	LiFePO4	
Battery Cell	3.2V/314Ah	
Pack Configuration	52S1P (52.249kWh)	
System Configuration	52S1P*5	
Rated Voltage	832V	
Voltage Range	728V~910V	
Full Load Voltage Range Compatible With PCS	615~950 (3W3L+PE)/680~950 (3W4L+PE)	
Work Voltage Range Compatible With PCS	615~950 (3W3L+PE)/650~950 (3W4L+PE)	
Rated Charge/Discharge C-rate	0.5CP	
Max. Charge/Discharge Current	203A	
Cell Cycle Life	≥8000 Cycles (80%SOH@Standard Cycle)	
System		
RTE	≥85%	
Cooling Method	Liquid Cooling	
IP Rating	IP54	
Operating Temperature	-20~50℃ (>45℃ Derating)	
Anti-corrosion Rating	C3-M	
Altitude	2000m	
Operating Humidity	5~95%RH (Non-condensing)	
Fire Suppression Agent	Aerosol / FK-5-1-12	
Communication	CAN / RS485 / WiFi / Ethernet	
Dimensions (W*D*H)	1560*1350*2150mm	
Weight	2.4t	
Certification & Compliance		
Grid Connection Standard	EN 50549-1, EN 50549-2, EN 50549-10, C10/11, AS4777, IEC61727&62116, VDE-AR-N 4105, VDE-AR-N 4110, VDE-AR-N 4120, CEI 0-21, CEI 0-16, G99-typeB/C/D, G100, 50549-2/-10+Finland, 50549-2+Netherlands, 50549-1/-2/-10 +France, South Africa NRS-097, 50549-1+Greece, 50549-1+Poland typeA, 50549-2+Poland typeB/C/D, PN-EN 50549-2 (dakks), 50549-1+Denmark, 50549-2+Czech Republic, 50549-2+Sweden, 50549-2/-10 +Switzerland, Austria TOR EZA, Type A & B, 50549-2+Hungary, 217001, 217002, NTS631, , 50549-2+Romania, The Saudi Arabian, Slovenia, Estonia	
Safty/EMC Standard	CE-LVD-62477, CE-LVD-62109, CE-EMC-61000	
Features		
PV Connection	OT/SC Terminal	/
AC Connection	OT/SC Terminal	
Display	HMI+Cloud	