

C&I ESS Container Solution

500kW/1075kWh PV+Battery Integrated Container BESS



User-friendly

Intelligent remote operation and maintenance, visualization platform for real-time monitoring, suitable for full-scene applications



Safe and Reliable

Thermal management system real-time accurate temperature control, electric core temperature difference $<3^{\circ}\text{C}$, multiple fire protection system, multi-level defense and control



Flexible Switching Off-grid

Support multi-units parallel, support grid-connected or off-grid operation, optional photovoltaic, diesel generators, etc



Short Response Time

System response time $<20\text{ms}$, full power and auxiliary service demand

Model	HC1075P
AC (On-grid)	
Rated Power	500kW
Maximum 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
Maximum Current	794A
Wiring Method	3P4L+PE
Frequency	50Hz/60Hz
THDu	≤2% (Linear Load)
Battery	
Battery Type	LiFePO4
Battery Cell	3.2V/280Ah
Battery Pack Configuration	1P16S*5
Battery Pack Quantity	15 Packs/Cluster*5
Rated Current	140A*5
Voltage Range	648~864V
Rated Capacity	1075.2KWh
PV	
Max. Usable PV Input Power	400kW
Max. Input Current	130A*8
Max. Short Circuit Current	/
Max. Input Voltage	900V
MPPT Voltage Range	250V-800V
Start-up Voltage	250V
MPPT Number	8
System	
Weight	15T
Dimensions (W/D/H)	6058*2438*2896mm
Maximum Efficiency	≥85%
Air Conditioning Power	25kW (Cooling), 9kW (Heating)
Temperature	-20℃~50℃ (De-Rating Over 45℃)
Humidity	5%~95%RH (Non-Condensation)
Protection Level	IP54
Anti-corrosion Rating	C4
Cooling Method	Air Cooling
Noise	≤75dB
Altitude	2000m (>2000m Derating)
Display	HMI
Fire Protection	FM-200
Communication	Ethernet
Certification	CE, UN38.3
Charge/Discharge Rate	0.5CP
Depth Of Discharge	90%DOD
Cycle Life	≥6000 Cycles (80% SOH @ Standard)