

C&I ESS Cabinet Solution

50kW/50KWh PV+Battery ESS All-in-one Cabinet



Scaled Energy Storage

LFP battery, multiple protection design
Long cycle life, slow degradation



CCS Module Design

Flexible configuration and easy expansion



Multiple Operation Modes

Supports simultaneous connections of load batteries,
power grid, diesel generators, and photovoltaics



Flexible Switching Off-grid

Abundant PV+Diesel interfaces, flexible
off-grid switching, easy installation

Model	HC50P
AC (On-grid)	
Rated Power	50kW
Maximum Current	72A
Rated Voltage	400V
Wiring Method	3P4L+PE
Frequency	50Hz/60Hz
Power Factor	0.8 (Leading)~0.8 (Lagging)
THDi	<5% (>30% Rated Power)
AC (Off-grid)	
Rated Power	50kW
Rated Voltage	400V
Maximum Current	72A
Wiring Method	3P4L+PE
Frequency	50Hz/60Hz
THDu	<3% (Linear Load)
Battery	
Battery Type	LiFePO4
Battery Cell	3.2V/100Ah
Battery Pack Configuration	1P32S
Battery Pack Quantity	5 Packs/Cluster
Rated Current	100A
Voltage Range	432~576V
Rated Capacity	51.2kWh
PV	
Max. Usable PV Input Power	30kW
Max. Input Current	25A*4
Max. Short Circuit Current	40A*4
Max. Input Voltage	850V
MPPT Voltage Range	200V~830V
Start-up Voltage	250V
MPPT Number	4
System	
Weight	1.5T
Dimensions (W/D/H)	Be Pending
Maximum Efficiency	≥85%
Air Conditioning Power	2kW (Cooling), 1 kW (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	LCD
Fire Protection	Aerosol
Communication	Ethernet
Certification	CE, UN38.3
Charge/Discharge Rate	1 CP
Depth Of Discharge	90%DOD
Cycle Life	≥6000 Cycles (80% SOH @ Standard)