

# 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°C~50°C (De-Rating Over 45°C)
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)