

C&I ESS Cabinet Solution

50kW/100kWh PV+Battery ESS All-in-one Cabinet



Safe and Reliable

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



Multiple Operation Modes

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



CCS Module Design

Flexible configuration and easy expansion



Flexible Switching Off-grid

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

Model	HC100P-280
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	≤3%
AC (Off-grid)	
Rated Power	50kW
Rated Voltage	400V
Maximum Current	72A
Wiring Method	3P4L+PE
Frequency	50Hz/60Hz
THDu	<2%
Battery	
Battery Type	LiFePO4
Battery Cell	3.2V/280Ah
Battery Pack Configuration	1P16S
Battery Pack Quantity	7 Packs/Cluster
Rated Current	140A
Voltage Range	302.4~403.2V
Rated Capacity	100.352kWh
PV	
Max. Usable PV Input Power	96kW
Max. Input Current	40A*4
Max. Short Circuit Current	60A*4
Max. Input Voltage	1000V
MPPT Voltage Range	150~850V
Start-up Voltage	180V
MPPT Number	4
System	
Weight	1.5T
Dimensions (W/D/H)	650*1100*2150mm
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	0.5CP
Depth Of Discharge	90%DOD
Cycle Life	≥6000 Cycles (80% SOH @ Standard)