

C&I ESS Cabinet Solution

# 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
<b>AC (On-grid)</b>	
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%
<b>AC (Off-grid)</b>	
Rated Power	50kW
Rated Voltage	400V
Maximum Current	72A
Wiring Method	3P4L+PE
Frequency	50Hz/60Hz
THDu	<2%
<b>Battery</b>	
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
<b>PV</b>	
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
<b>System</b>	
Weight	<3T
Dimensions (W/D/H)	650*1100*2150mm
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	0.5CP
Depth Of Discharge	90%DOD
Cycle Life	≥6000 Cycles (80% SOH @ Standard)