

Residential ESS Solution

# 30kW/60kWh High Voltage Rack-mounted Battery



## Extremely Safety

Adopts a single cluster two-level architecture, and the BMS has over-current, over-charge, over-voltage, over-temperature, and under-low protection functions.



## Wide Temperature

Working temperature range is from -20°C to 55°C, with excellent discharge performance and cycle life.



## Long Cycle Life

Uses LiFePO4 Battery to meet long cycle life applications and safer using.



## Easy to Install & Maintain

Modular design & standard chassis structure.



## Intelligent Control

Integrates BCU and BMU for precise battery management.

Model	HCH-60S
<b>AC (On-grid)</b>	
Rated Power	30kW
Maximum Current	43A
Rated Voltage	400V
Wiring Method	3P4L+PE
Frequency	50Hz/60Hz
Power Factor	1 (Leading)~1 (Lagging)
THDi	≤3% (Rated Power)
<b>AC (Off-grid)</b>	
Rated Power	30kW
Rated Voltage	400V
Maximum Current	43A
Wiring Method	3P4L+PE
Frequency	50Hz/60Hz
THDu	<3% (Linear Load)
<b>Battery</b>	
Battery Type	LiFePO4
Battery Cell	3.2V/100Ah
Battery Pack Configuration	1P16S
Battery Pack Quantity	12 Packs/Cluster
Rated Current	50A
Voltage Range	518.4~691.2V
Rated Capacity	61.44kWh
<b>PV</b>	
Max. Usable PV Input Power	19.2kW*2
Max. Input Current	32A*2
Max. Short Circuit Current	50A*2
Max. Input Voltage	850V
MPPT Voltage Range	200V~830V
Start-up Voltage	250V
MPPT Number	2
<b>System</b>	
Weight	<1T
Dimensions (W/D/H)	560*740*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)