

Home Series Residential ESS

Hybrid / All-in-one System / Single-phase input & output 3.6–10 kW



Safety

1. Aerogel Insulation:

Superior protection against heat and fire.

2. Consistent Quality:

Automated production ensures top-tier standards.



Reliability

1. Top Lithium Cells: Powered by CATL & EVE, the world's TOP 3 lithium cell brands.

2. All-in-One Design: Integrated system for smooth and coherent operation.



Friendly

1. Quick-Connect Terminals:

Easy and secure installation.

2. Remote Monitoring: Control your system anytime via WiFi and app.



Battery Model	H-PACK-5.1
Battery Module Specification	
Nominal Energy	5.12 kWh
Continucus Output Power(charge/discharge) for a Single Module	2825 W / 2560 W
Peak Roundtrip Efficiency	>95.4%
Warranty	5 years Performance Warranty
Voltage Range	44.8 V ~ 56.5 V
Communication Interfaces	CAN & RS-485
Modules Per Inverter	Up to 8 connected in parallel
Battery Type	Li-ion-LFP
Life Cycle	6000 cycles @25°C ±2°C or 0.5C Condition ¹⁾
Standard Compliance	
Cell	IEC/EN 62619, UN 38.3, UL 1973
Module	IEC/EN 62619, UN 38.3
Mechanical Specifications	
Dimensions(W×H×D)	435 x 580 x 155 mm
Weght	48 kg
Mounting	Floor stand, Wall attach, Rack mount
Operating Temperature (charge/discharge)	0 ~ 50°C (Charging), -10 ~ 50°C (Discharging)
Storage Temperature (12 months between recharges)	-10 ~ 50°C
Max. Operating Altitude	2000 m
Enclosure Protection	IP21
Cooling	Natural convection
Noise (at 1m distance)	<25dBA

1) @25°C & 0.5C condition.

Hybrid Inverter Model	HH3.6KS		HH6KS	HH10KS
PV String Input				
Max. PV Array Input Power	6.0 kWp		9.0 kWp	18.0 kWp
Max. DC Voltage	500 V			
Nominal Voltage	270 V		300 V	300 V
MPPT Voltage Range	120 V ~ 450 V			
MPPT Voltage Range (Full Load)	270 V ~ 425 V		300 V ~ 425 V	300 V ~ 425 V
Start Voltage ¹⁾	120 V			
Number of MPPT	1		1	2
Strings Per MPPT	1			
Max. Input Current Per MPPT	18 A		22 A	22 A
Max. Short-Circuit Current Per MPPT	21 A		25 A	25 A
AC Output (Grid)				
Nominal AC Output Power	3.6 kW		6.0 kW	10.0 kW
Max. AC Apparent Power	3.6 kVA		6.0 kVA	10.0 kVA
Nominal AC Voltage	230 Vac			
AC Grid Frequency Range	50 / 60Hz±5Hz			
Nominal Output Current	15.6 A		26.0 A	43.5 A
Max. Output Current	21.0 A		35.0 A	58.8 A
THDi	<5%			
Battery Input				
Battery Type	LFP (LiFePO4)			
Nominal Battery Voltage	51.2 V			
Charging Voltage Range	44-57.6 Vdc			
Max. Solar Charging Current	50 A(1*pack)	60 A(2*packs)	100 A(2*packs)	200 A (4*packs)
Max. AC Charging Current	50 A(1*pack)	60 A(2*packs)	100 A(2*packs)	160 A (4*packs)
Max. Overall Charging Current	50 A(1*pack)	60 A(2*packs)	100 A(2*packs)	200 A (4*packs)
Max. Discharging Current	50 A(1*pack)	78 A(2*packs)	100 A(2*packs)	200 A (4*packs)
Battery Capacity	5.12 kWh (Single Pack)			
AC Output (Backup)				
Dual Output	No		No	Yes
Nominal AC Output Power(Battery Mode)	2.3 kW	3.6 kW	4.7 kW	9.6 kW
Nominal AC Output Power(Battery + PV Mode)	3.6 kW		6.0 kW	10.0 kW
Nominal Output Voltage	230 Vac			
Nominal Output Frequency	50 / 60Hz			
Output THDv (@Linear Load)	<3% (Linear Load)			
Protection				
Anti-islanding Protection	Yes			
Output Over Current Protection	Yes			
DC Reverse Polarity Protection	Yes			
DC/AC Surge Protection	DC Type II;AC Type III			
Insulation Detection	Yes			
AC Short Circuit Protection	Yes			
General Specifications				
Dimensions W x H x D	435 x 410 x 155 mm		435 x 410 x 155 mm	435 x 580x 155 mm
Weight	13.7 kg		15.2 kg	21.5 kg
Operating Temperature Range	-10 C ~ 55 C			
Cooling Type	Fan			
Max. Operation Altitude	<3000m			
Operation Humidity	5% ~ 95%			
IP Class	IP20			
Topology	Battery Isolation			
Communication	RS232 / RS485 / USB / CAN / WIFI			
Display	LCD / APP			
Certification & Standard	IEC62109-1&2, EN61000-6-1&2&3&4, C2, ISTA-2A, IEC 62116, IEC 61727			

* 1) Minimum voltage for inverter to start power output.