

Mode	HEC2-BHP100r2
Component	Base+BMS+2*Module
Nominal Voltage	204.8V
Battery Voltage Range	185.6V~224V
Number of Battery Modules	2
Rated Capacity	50Ah
Total Energy	10.2kWh
Usable Energy	9.2kWh
Nominal Power	5.12kW
Maximum Charge/Discharge Current	25A
Cycle Life	6000 Cycles
Expected Life Time	10Years
Available Charge/Discharge Temperature Range	0°C to 55°C / -20°C to 55°C
	-20°C to 55°C(Build-in heating function)/-20°C to 55°C
Storage Temperature	-20°C to 50°C (3 months)
	0°C to 40°C (6 months)
Humidity	15~95%
Altitude	Below 2000m
Ingress Protection	IP65
Communication	RS485/CAN2.0
Status Indicator	LED Lights
SOC Indicator	5LED (20%, 40%, 60%, 80%,100%)
Switch on/off	Button*1+Breaker*1
Certificate	CE,IEC62619,IEC62040,IEC60529,IEC61000,UN38.3
Weight	124 ± 6kg
Dimension(W*H*D)	(800 ± 5)*(840 ± 30)*(160 ± 5)mm
Remark	1 Series

HiEnergy-S RESIDENTIAL ESS

HiEnergy SERIES SINGLE-PHASE ALL-IN-ONE SOLUTION

Hiconics Single-phase HiEnergy Series All-In-One energy storage system covers 5kW/5kWh~ 5kW/30kWh with high voltage battery modules. It stores and manages energy and provides power to your home in a reliable and efficient way.



HiEnergy-S Residential ESS

Single-phase All-in-one Solution



-20°C ~ 55°C

Operation Temperature



100%

Pre-installation of internal cable



IP65

Protection Level

Highly adaptable

-20°C ~ 55°C operation temperature, Integrated with internal temperature regulation system

Lego-Style installation

Pre-installation of battery cable, True Lego-style installation, free from internal wiring

Efficient

High voltage system, Higher charge & discharge energy conversion efficiency

Model	HEC2-S3.8Hr2	HEC2-S5Hr2	HEC2-S6Hr2
PV Input			
Max.PV Input power		7500W	
Max.DC voltage		600V	
Nominal DC operating voltage		360V	
Max.input current(A/B)		15A/15A	
Max.short circuit current(A/B)		18A/18A	
MPPT voltage range		100V~480V	
Start up voltage		120V	
Number of MPP tracks/String per MPP tracker		2/1	
BAT Input			
Battery voltage range		85V~400V	
Recommended battery voltage		300V	
Nominal charge/discharge current		25A/25A	
Communication interfaces		RS485/CAN	
Reverse connection protection		Yes	
AC Grid Output			
Nominal AC power	3800W	5000W	6000W
Nominal grid voltage,frequency	220V/230V,50Hz/60Hz		
Nominal AC current	16.5A	21.8A	26.1A
Power factor	-0.8leading~-0.8lagging		
THDi	<3%@Rated Power		
EPS Output			
EPS Nominal power	3800W	5000W	6000W
EPS Nominal voltage, frequency	220V/230V, 50Hz/60Hz		
EPS Nominal current	16.5A	21.8A	26.1A
EPS Peak power / Duration	4750VA/10s	6250VA/10s	7500VA/10s
EPS Switch time	<20ms		
THDu	<3%@Linear Load		
Efficiency			
MPPT efficiency	99.9%		
Euro efficiency	97.02%		
Max efficiency	97.6%		
Battery charge/discharge efficiency	97.6%(PV-BAT), 96.5%(BAT-AC)		
General Data			
Ingress protection	IP65		
Operating temperature range	-20°C~+60°C(derating >45°C)		
Max. operation altitude	<2000m		
Humidity	0-100%		
Protection	DC switch,Anti-islanding Protection, PV Input Reverse Polarity Protection, String Fault Detection,Insulation Detection, Output Over Current Protection, Residual Current Monitoring,Output Shorted Protection, AC short circuit protection,Surge Protection		
AC/DC surge protection	III (AC), II (DC)		
Noise	<40dB		
Dimension (W*H*D)	800*450*160mm		
Weight	32kg		
Cooling method	Natural		
Topology	Non-isolated		
Communication interfaces	WIFI/CAN/RS485		
Monitoring	APP/LED		
Standard warranty	5 years		
Standards			
Safety	IEC/EN 62109-1&2. IEC 62040-1		
Certification	EN50549-1,G99,CEI021,VDE4105,AS4777.2		

Remark:

*1:The grid feed in power for VDE4105 is limited 4600VA;

*2:Battery charging current is limited 25A and power is limited 6000W.