

Efficiency	MPPT efficiency[%]				
	Euro efficiency[%]	95.0	95.0	95.2	95.2
	Max. efficiency[%]	96.5	96.5	96.7	96.8
	Battery charge/discharge efficiency[%]	97.6(PV-BAT),	97.6(PV-BAT),	97.6(PV-BAT),	97.6(PV-BAT),
		95.4(BAT-AC)	95.4(BAT-AC)	96.0(BAT-AC)	96.0(BAT-AC)

Ingress protection	IP65
Protection class	Class I
Pollution degree	PD3
Over voltage category	III(MAINS), II(DC)
Operating temperature range[°C]	-20~+60(derating at +45)
Max.operation altitude[m]	<2000
Humidity	0-95%
Cooling Method	Natural Convection
User Interface	LED,APP
Communication with BMS	CAN/485
Communication with Meter	485
Communication with Portal	WIFI
Typical noise emission[dB]	<40
Dimension (W*H*D) [mm]	800*450*160
Weight[KG]	34
Topology	Non-isolated
Self-consumption at Night (W)	<25
DC Connector	MC4 (4-6mm ²)
AC Connector	Quick Plug
Standard warranty[years]	10

Standard	Safety	
	IEC/EN 62109-1&2, IEC62477	
	EMC IEC61000-6-1, IEC61000-6-3	
	Environment IEC60529, IEC60068	
	Efficiency IEC61683	
Certification EN50549-1, G99, G98, CEI021, VDE4105, AS4777.2, NRS-097		

Component	HEC2-BHPxxr2 Series			
	HEC2-BHP50r2-EU	HEC2-BHP100r2-EU	HEC2-BHP150r2-EU	HEC2-BHP200r2-EU
Nominal Voltage[V]	102.4	204.8	307.2	409.6
Maximum protection voltage[V]	116.8	233.6	350.4	467.2
Minimum protection voltage[V]	89.6	179.2	268.8	358.4
Battery module	Module*1	Module*2	Module*3	Module*4
Nominal capacity[Ah]	50	50	50	50
Total energy[kWh]	5.1	10.2	15.3	20.4
Nominal power [kW]	2.56	5.12	7.68	10.24
Nominal charge/discharge current[A]	25			
Max. charge/discharge current[A]	25			
Cycle life	6000 Cycles (@0.5C, 90%DOD, 25°C, 60%SOH)			
Expected life time	10 Years (60%SOH)			
Operating Temperature (°C)	-20 to 55 (derating above 45°C)			
Storage temperature[°C]	-20°C to 55°C (1 months) ; -20°C to 45°C (3 months) ; -20°C to 35°C (1 year)			
Altitude[m]	Below 2000m			

Protection	IP65			
System to Inverter	RS485/CAN2.0			
Battery to battery / BMS	Daisy chain			
Display Interface	LED			
Switch on/off	Button*1+Breaker*1			
Weight[kg]	69±4	124±6	179±8	234±10
External dimensions(W*H*D) (mm)	(800±20)*(530±30) *(160±20)	(800±20)*(840±30) *(160±20)	(800±20)*(1150±30) *(160±20)	(800±20)*(1460±30) *(160±20)
Remark	1 Series			

Component	HEC2-BHPxxr2 Series	
	HEC2-BHP200r2-A-EU	HEC2-BHP300r2-A-EU
Nominal Voltage[V]	2*(Base+BMS+2*Module)	2*(Base+BMS+3*Module)
Maximum protection voltage[V]	204.8	307.2
Minimum protection voltage[V]	233.6	350.4
Battery module	Module*4	Module*6
Nominal capacity[Ah]	100	100
Total energy[kWh]	20.4	30.6
Nominal power [kW]	10.24	15.36
Nominal charge/discharge current[A]	50	
Max. charge/discharge current[A]	50	
Cycle life	6000 Cycles (@0.5C, 90%DOD, 25°C, 60%SOH)	
Expected life time	10 Years (60%SOH)	
Operating Temperature (°C)	-20 to 55 (derating above 45°C)	
Storage temperature[°C]	-20°C to 55°C (1 months) ; -20°C to 45°C (3 months) ; -20°C to 35°C (1 year)	
Altitude[m]	Below 2000m	
Protection	IP65	
System to Inverter	RS485/CAN2.0	
Battery to battery / BMS	Daisy chain	
Display Interface	LED	
Switch on/off	2*(Button*1+Breaker*1)	
Weight[kg]	248±12	358±16
External dimensions(W*H*D) (mm)	(1600±20)*(840±30) *(160±20)	(1600±20)*(1150±30) *(160±20)
Remark	2 Series Parallel	

Remark:

- *1: The grid feed in power for VDE4105 is limited 4600VA.
- *2: Battery charging current is limited 25A and power is limited 6000W.
- *3: The machine may be damaged if PV port exceeds this voltage, full power operation voltage should be less than 480V, 480V-540V for limited power operation.
- *4: Battery port boot voltage must be greater than 95V.
- *5: The power is 6000W according to the grid port.
- *6: The value will appear when the grid is charging battery and support EPS load.



HIENERGY SERIES ALL-IN-ONE RESS

Single-Phase Solution

2023 TOTAL REVENUE (USD)



51.68 B

2023 NET PROFIT (USD)



4.66 B

NUMBER OF EMPLOYEES



190 K+

BY S&P/MOODY'S/FITCH CREDIT RATINGS



A/A3/A

FORTUNE GLOBAL 500 2024



277

FORBES GLOBAL 2000 2023



199

BRAND FINANCE 2023 TOP 500 MOST VALUABLE BRANDS



198

BRAND FINANCE 2023 TOP 100 MOST VALUABLE TECH BRANDS



36

LEADING ODM PROVIDER OF GREEN ENERGY PRODUCTS

ODM VALUE CHAIN
A REPEATABLE PATH FOR EXCELLENCE IN QUALITY DELIVERY

GLOBAL R&D STRATEGY

4 Research Institutes
Central Academy
Industrial Technology Research Institute
Industrial Technology Research Institute
AI Research Institute
33 R&D Centers
50+ Core Laboratory
25% Masters & PhDs
 Aesthetics & Design Center

BILLION LEVEL SUPPLY CHAIN

27.6 B Procurement Volume
100 K+ Supplier System
100% Quality Sampling
 Top **5** Supplier Resources

INTELLIGENT MANUFACTURING

50+ Years Manufacturing Experience
40 Global Manufacture Centers
100 K GMP Cleanroom
 Inhouse Production Lines
Beijing & Anqing Manufacturing Center
 Lighthouse / Digital Factory

QUALITY CONTROL

130 M Dollars Investment
1st in Industry to Conduct:
Mechanical back-to-back test
Simulation test
Motor Load Test
CSA Cooperative Sightings Lab
UL/CE Certificates

HIENERGY SERIES SINGLE-PHASE ALL-IN-ONE RESS



ULTIMATE SAFETY

- 5 Level cell Protection
- Advanced Thermal Management

EASY INSTALLATION

- Stackable Modular Design
- Quick Plug, No Extra Wiring
- Installation time <20 min
- 5 min Fast Commissioning

RESIDENTIAL INTEGRATION

- IP 65 Protection & -20~55degree operation range
- Midea Heat Pump Integration
- Super Slim, Space Saving
- Aesthetic & Harmonious Design
- Natural cooling, ultra-quiet

SMART CONTROL

- 3rd Party EMS Compatibility
- TOU(6 time schedule & support maximum power buying setting), saving more + VPP Ready
- Seamless On/Off Grid Transition

PRODUCT PARAMETER

	HEC2-S3.68Hr2	HEC2-S3.8Hr2	HEC2-S5.0Hr2	HEC2-S6.0Hr2
PV Input	Max.PV array power[W]			
	3750/3750			
	Max.DC voltage[V]			
	600 ^{±3}			
	Nominal DC operating voltage[V]			
	360			
	MPPT voltage range[V]			
100-540				
MPP voltage range for nominal power[V] ⁵				
137-480	141-480	185-480	225-480	
Start up voltage[V]				
120				
Max.input current(A/B)[A]				
15/15				
Max.short circuit current(A/B)[A]				
18/18				
No.of MPP tracks/String per MPP tracker				
2/1				
BAT Side	Battery voltage range[V]			
	85 ^{±4} -400			
	Battery voltage range for nominal power[V]			
	160-400	170-400	225-400	250-400
	Recommended battery voltage[V]			
300				
Max.charge/discharge current[A] ²				
25/25				
Communication interfaces				
RS485/CAN				
Reverse connect protection				
Yes				
AC Grid Side (On-grid)	Nominal AC output power[W]			
	3680	3800	5000 ^{±1}	6000 ^{±1}
	Max.Output Power(W)			
	3680	3800	5000 ^{±1}	6000 ^{±1}
	Nominal Apparent Power Output to Utility Grid (VA)			
	3680	3800	5000 ^{±1}	6000 ^{±1}
	Max. Apparent Power Output to Utility Grid (VA)			
	3680	3800	5000 ^{±1}	6000 ^{±1}
	Nominal Apparent Power from Utility Grid (VA)			
	3680	3800	5000	6000
	Max. Apparent Power from Utility Grid (VA)			
	6000 ^{±6}	6000 ^{±6}	6000 ^{±6}	6000
	Nominal grid voltage[V]			
L/N/PE 230Va.c				
Grid Voltage Range[V]				
180-280				
Nominal grid frequency[Hz]				
50				
AC Grid Frequency Range (Hz)				
50±5				
Max. output AC current to Utility Grid[A]				
16A a.c	16.5A a.c	21.7A a.c	26.1A a.c	
Rate output AC current to Utility Grid[A]				
16A a.c	16.5A a.c	21.7A a.c	26.1A a.c	
Rated AC Current From Utility Grid (A)				
16A a.c	16.5A a.c	21.7A a.c	26.1A a.c	
Max. AC Current From Utility Grid (A)				
26.1 ^{±A} a.c	26.1 ^{±A} a.c	26.1 ^{±A} a.c	26.1A a.c	
Power factor				
~1 (Adjustable from 0.8 leading to 0.8 lagging)				
LTHD[%]				
<3@Rated power		<5@Rated power		
Back-up Nominal Apparent Power(VA)				
3680	3800	5000	6000	
Nominal power[W]				
3680	3800	5000	6000	
Max. Output Apparent Power without Grid (VA)				
7500@10sec				
Max. Output Apparent Power with Grid (VA)				
7500@10sec				
Nominal output voltage[V]				
L/N/PE 230Va.c				
Nominal output frequency[Hz]				
50				
Nominal Output Current (A)				
16	16.5	21.7	26.1	
Max.output current[A]				
16	16.5	21.7	26.1	
Max.output overcurrent protection[A]				
32.6@10sec				
Switching from Grid Connected Mode to Standalone Mode[ms]				
<20				
Output THD[%]				
<5@Linear Load				