

Environment Limit

DIMENSION AND WEIGHT

Three Phase Inverter	HEC2-T15.0Hr2-Eu	HEC2-T12.0Hr2-Eu	HEC2-T10.0Hr2-Eu	HEC2-T8.0Hr2-Eu
Ingress protection	IP65			
Protection class	Class I			
Pollution degree	PD3 (Outside)/PD2 (Inside)			
Over voltage category	Over voltage category Mains III Over voltage category PV/Battery II			
Operating temperature range[°C]	-20~60(derating at 45)			
Max. operation altitude[m]	<3000			
Humidity	0-95%			
Storage temperature[°C]	-40~70			
Typical noise emission[dBA]	<45			
Communication with BMS	CAN / RS485			
Communication with Meter	RS485			
Communication with Portal	RS485			
Dimension (W*H*D) [mm]	800(±2)*525(±2)*160(±2)			
Weight[KG]	52(±5)			
Cooling concept	Smart Cooling			
Topology	Non-isolated			
Communication interfaces	Meter/CT,CAN,RS485,WIFI(External)			
HMI	APP			
DC Connector (mm²)	4-6			
AC Connector(mm²)	6-10			

HEC2-BHPxxr2 Series	HEC2-BHP50r2-EU	HEC2-BHP100r2-EU	HEC2-BHP150r2-EU	HEC2-BHP200r2-EU
Component	Base+BMS+1*Module	Base+BMS+2*Module	Base+BMS+3*Module	Base+BMS+4*Module
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)			
Nominal Apparent Power Output to Utility Grid (VA)	-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			

HEC2-BHPxxr2 Series	HEC2-BHP200r2-A-EU	HEC2-BHP300r2-A-EU
Component	2*(Base+BMS+2*Module)	2*(Base+BMS+3*Module)
Nominal Voltage[V]	204.8	307.2
Maximum protection voltage[V]	233.6	350.4
Minimum protection voltage[V]	179.2	268.8
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)	
Nominal Apparent Power Output to Utility Grid (VA)	-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	



**HIENERGY SERIES**  
**ALL-IN-ONE RESS**  
Three-phase Solution

## BUSINESS PROFILE AT A GLANCE

<p>2023 TOTAL REVENUE (USD)</p> <p><b>51.68 B</b></p>	<p>2023 NET PROFIT (USD)</p> <p><b>4.66 B</b></p>
<p>NUMBER OF EMPLOYEES</p> <p><b>190 K+</b></p>	<p>BY S&amp;P/MOODY'S/FITCH CREDIT RATINGS</p> <p><b>A/A3/A</b></p>
<p>FORTUNE GLOBAL 500 2023</p> <p><b># 278</b></p>	<p>FORBES GLOBAL 2000 2023</p> <p><b># 199</b></p>
<p>BRAND FINANCE 2023 TOP 500 MOST VALUABLE BRANDS</p> <p><b># 198</b></p>	<p>BRAND FINANCE 2023 TOP 100 MOST VALUABLE TECH BRANDS</p> <p><b># 36</b></p>

## 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  
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: **CSA** Cooperative Sightings Lab

**UL/CE** Certificates

Mechanical back-to-back test  
Simulation test  
Motor Load Test

## HIENERGY SERIES ALL-IN-ONE RESS



### EASY & QUICK INSTALLATION

**No cable**  
Between batteries

**70%**  
Less wiring time

### ALL-IN-ONE & MODULAR DESIGN

Easier transportation, Handling and installation

### PEACE OF MIND

**10** Years Warranty

No spare parts, always replacement

### 5 LAYER PROTECTION

Explosion-proof Valve	Aerosol	<b>V0</b> Anti-fire material
High-temperature Resistance cable	System protection Function	

### ARTISTICAL DESIGN

<b>16 cm</b> Slim	Child & pet friendly: Hidden cabling	<b>IP65</b> Outdoor rating
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## PRODUCT PARAMETER

	HEC2-T15.0Hr2-Eu	HEC2-T12.0Hr2-Eu	HEC2-T10.0Hr2-Eu	HEC2-T8.0Hr2-Eu
<b>Three Phase Inverter</b>				
Max. PV array power[W]	(7000+7000)/8500	(5500+5500)/7000	(5250+5250)/6000	(4250+4250)/5000
Max. open circuit voltage[V]	1000			
Max. input current(A/B)[A]	26/16			
Max. short circuit current(A/B)[A]	30/20			
Mppt voltage range[V]	180-950			
Mppt voltage range at full load[V]	540-850	423-850	404-850	327-850
Start operating voltage[V]	200			
No. of MPP tracks/String per MPP tracker(A/B)	2/(2/1)			
<b>BAT Input</b>				
Battery voltage range[V]	180-650			
Nominal charge/discharge current[A]	30/30			
Communication interfaces	RS485/CAN			
Reverse connect protection	Yes			
<b>AC Grid Input</b>				
Nominal AC input power[VA]	20000	20000	20000	16000
Max. AC input power[W]	20000	20000	20000	16000
Nominal AC current[A]	27.8/29/30.3	27.8/29/30.3	27.8/29/30.3	22.2/23.2/24.3
Max AC current[A]	32	32	32	26
Nominal Apparent Power from Utility Grid (VA)	20000	20000	20000	16000
Max. Apparent Power from Utility Grid (VA)	20000	20000	20000	16000
Nominal grid voltage[V]	415/240 ~ ;400/230 ~ ;380/220V ~ ;3L/N/PE			
Nominal grid frequency[Hz]	50/60			
<b>AC Grid Output</b>				
Nominal AC output power[W]	15000	12000	10000	8000
Max. AC output power[W]	15000	13200	11000	8800
Max apparent power to Utility Grid [VA]	15000	13200	11000	8800
Nominal grid voltage[V]	415/240 ~ ;400/230 ~ ;380/220V ~ ;3L/N/PE			
Nominal grid frequency[Hz]	50/60			
Max output AC current[A]	24	20	16.7	13.3
Nominal output AC current[A]	21.7@230VAC	17.4@230VAC	14.5@230VAC	11.6@230VAC
Displacement power factor	-0.8~0.8			
THDv[%]	<3@Rated power			
<b>EPS(Off-grid) Output</b>				
Nominal EPS ouput power[W]	15000	12000	10000	8000
Max. EPS output apparent power[VA]	15000	12000	10000	8000
Nominal voltage[V], frequency[Hz]	230/400, 50/60			
Max output current[A]	24	19.3	16.1	12.9
Nominal output current[A]	21.7	17.4	14.5	11.6
Inrush peak Current(A)	65	65	65	65
Switching from Grid Connected Mode to Standalone Mode[ms]	<20			
Switching from standalone mode to network connected mode[ms]	> 60s @VDE-AR-N 4105 2018-1			
THDv[%]	<3@Linear Load			
<b>Efficiency</b>				
MPPT efficiency[%]	99.9			
Euro efficiency[%]	96.1			
Max. efficiency[%]	97.7			
Battery charge/discharge efficiency[%]	98.5(PV-BAT), 97(BAT-AC)			