



SMART LIFE, BETTER LIFE

Environment Limit	Three Phase Inverter			
		HEC2-T8.0Hr2-Eu	HEC2-T10.0Hr2-Eu	HEC2-T12.0Hr2-Eu   HEC2-T15.0Hr2-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 AND WEIGHT	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 (mm*2)	4-6
	AC Connector(mm*2)	6-10
	Certification	EN50549-1/EN50549-10, IEC/EN62040-1, IEC/EN 61000-6-1/2/3/4, VDE-AR-N 4105, CEI 0-21, G98/G99, PTPiREE,2021-04; NC RFG; PSE, UNE 217002:2020,UNE 217001:2020, NTS 2019 V2.1, G100, TOR Erzeuger Type A V1.2, AS/NZS4777.2: 2020+A1, NRS 097-2-1:2017

HEC2-BHPxxr2 Series	HEC2-BHP100r2-EU	HEC2-BHP150r2-EU	HEC2-BHP200r2-EU	
	Component	Base+BMS+2*Module	Base+BMS+3*Module	Base+BMS+4*Module
	Nominal Voltage[V]	204.8	307.2	409.6
	Maximum protection voltage[V]	233.6	350.4	467.2
	Minimum protection voltage[V]	179.2	268.8	358.4
	Battery module	Module*2	Module*3	Module*4
	Nominal capacity[Ah]	50	50	50
	Total energy[kWh]	10.2	15.3	20.4
	Nominal power [kW]	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]	124±6	179±8	234±10	
External dimensions(W*H*D) (mm)	(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	HEC2-BHP400r2-A-EU	
	Component	2*(Base+BMS+2*Module)	2*(Base+BMS+3*Module)	2*(Base+BMS+4*Module)
	Nominal Voltage[V]	204.8	307.2	409.6
	Maximum protection voltage[V]	233.6	350.4	467.2
	Minimum protection voltage[V]	179.2	268.8	358.4
	Battery module	Module*4	Module*6	Module*8
	Nominal capacity[Ah]	100	100	100
	Total energy[kWh]	20.4	30.6	40.8
	Nominal power [kW]	10.24	15.36	20.48
	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	468±20	
External dimensions(W*H*D) (mm)	(1600±20)*(840±30) *(160±20)	(1600±20)*(1150±30) *(160±20)	(1600±20)*(1460±30) *(160±20)	
Remark	2 Series Parallel			



# HIENERGY SERIES ALL-IN-ONE RESS

Three-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 THREE-PHASE ALL-IN-ONE RESS



### ULTIMATE SAFETY

- 5 Level Protection for Battery Cell
- Most Rigorous Safety Test for Battery Pack
- Worry Free for Cyber Attack

### SIMPLIFIED INSTALLATION

- Building Block Assembly
- No Wiring, Plug & Play
- Installation < 20 min, Commissioning < 5 min

### INTELLIGENT CONTROL

- Integrate with Midea Home Appliance & Heat Pump in one App
- Higher Profit Gain by Participating in Utility Smart Power Distribution
- Power Guarantee in Blackout

## PRODUCT PARAMETER

	HEC2-T8.0Hr2-Eu	HEC2-T10.0Hr2-Eu	HEC2-T12.0Hr2-Eu	HEC2-T15.0Hr2-Eu
<b>PV Input</b>	Three Phase Inverter			
Max. PV array power[W]	(4250+4250)/5000	(5250+5250)/6000	(5500+5500)/7000	(7000+7000)/8500
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]	327-850	404-850	423-850	540-850
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]			
	16000	20000	20000	20000
Max. AC input power[W]	16000	20000	20000	20000
Nominal AC current[A]	22.2/23.2/24.3	27.8/29/30.3	27.8/29/30.3	27.8/29/30.3
Max AC current[A]	26	32	32	32
Nominal Apparent Power from Utility Grid (VA)	16000	20000	20000	20000
Max. Apparent Power from Utility Grid (VA)	16000	20000	20000	20000
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]			
	8000	10000	12000	15000
Max. AC output power[W]	8800	11000	13200	15000
Max apparent power to Utility Grid [VA]	8800	11000	13200	15000
Nominal grid voltage[V]	415/240 ~ ;400/230 ~ ;380/220V ~ ;3L/N/PE			
Nominal grid frequency[Hz]	50/60			
Max output AC current[A]	13.3	16.7	20	24
Nominal output AC current[A]	11.6@230VAC	14.5@230VAC	17.4@230VAC	21.7@230VAC
Displacement power factor	-0.8~0.8			
THDi[%]	<3@Rated power			
<b>EPS(Off-grid) Output</b>	Nominal EPS output power[W]			
	8000	10000	12000	15000
Max. EPS output apparent power[VA]	8000	10000	12000	15000
Nominal voltage[V], frequency[Hz]	230/400, 50/60			
Max output current[A]	12.9	16.1	19.3	24
Nominal output current[A]	11.6	14.5	17.4	21.7
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)			