

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 (mm²)	4-6
AC Connector(mm²2)	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	HEC-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}

Top 5_{Supplier Resources}

100%_{Quality Sampling}

INTELLIGENT MANUFACTURING

50+

Years Manufacturing Experience

40<sub>Global Manufacture
Centers</sub>

100_K_{GMP Cleanroom}

Inhouse Production Lines
Beijing & Anqing Manufacturing Center

Lighthouse / Digital Factory

QUALITY CONTROL

130_M

Dollars Investment

1_{st}_{in Industry to Conduct:}

CSA

Cooperative
Sightings Lab

UL/CE

Certificates

HIENERGY SERIES THREE-PHASE ALL-IN-ONE RESS



ULTIMATE SAFETY

- 5 Level cell Protection
- Advanced Thermal Management
- System Function Safety*
- Cyber Security for Operation & Data*

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
- Home Appliance Power Integration
- Super Slim, Space Saving
- Aesthetic & Harmonious Design
- Silent

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

	Three Phase Inverter	HEC2-T8.0Hr2-Eu	HEC2-T10.0Hr2-Eu	HEC2-T12.0Hr2-Eu	HEC2-T15.0Hr2-Eu
PV Input	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			
BAT Input	No. of MPP tracks/String per MPP tracker(A/B)	2/(2/1)			
	Battery voltage range[V]	180-650			
	Nominal charge/discharge current[A]	30/30			
	Communication interfaces	RS485/CAN			
AC Grid Input	Reverse connect protection	Yes			
	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			
AC Grid Output	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			
EPS(Off-grid) Output	THDi[%]	<3@Rated power			
	Nominal EPS ouput 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
Efficiency	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			
	MPPT efficiency[%]	99.9			
	Euro efficiency[%]	96.1			
Efficiency	Max.efficiency[%]	97.7			
	Battery charge/discharge efficiency[%]	98.5(PV-BAT), 97(BAT-AC)			