Midea | HICONICS

ENERGY LINKS ALL

Three Phase Inverter	HEC2-T8.0Hr2-Eu	HEC2-T10.0Hr2-Eu	HEC2-T12.0Hr2-Eu	HEC2-T15.0Hr2-Eu
Environment Limit				
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[℃]	-20~60(derating at 45)			
Max. operation altitude[m]	<3000			
Humidty	0-95%			
Storage temperature[℃]	-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℃,60%SOH)		
Expected life time	10 Years (60%SOH)		
Operating Temperature (℃)	-20 to 55 (derating above 45℃)		
Storage temperature[℃]	-20℃ to 55℃ (1 months)； -20℃ to 45℃ (3 months)； -20℃ to 35℃(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℃,60%SOH)		
Expected life time	10 Years (60%SOH)		
Operating Temperature (℃)	-20 to 55 (derating above 45℃)		
Storage temperature[℃]	-20℃ to 55℃ (1 months)； -20℃ to 45℃ (3 months)； -20℃ to 35℃(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

FORTUNE GLOBAL 500

Midea

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

Midea | HICONICS

LEADING ODM PROVIDER OF GREEN ENERGY PRODUCTS

ODM VALUE CHAIN
A REPEATABLE PATH FOR EXCELLENCE IN QUALITY DELIVERY

GLOBAL R&D STRATERGY

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

100K+ Supplier System

100% Quality Sampling

Top 5 Supplier Resources

INTELLIGENT MANUFACTURING

50+ Years Manufacturing Experience

40 Global Manufacture Centers

Inhouse Production Lines
Beijing & Anqing Manufacturing Cneter

100K GMP Cleanroom

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