Midea | HICONICS

HIENERGY SERIES ALL-IN-ONE RESS

Single-Phase Solution

ENERGY LINKS ALL

COMPLETE VALUE CHAIN FOR EXCELLENCE IN QUALITY DELIVERY

2024 TOTAL REVENUE (USD)	2024 NET PROFIT (USD)	NUMBER OF EMPLOYEES	BY S&P/MOODY'S
56.82 B	5.34 B	190 K+	A/A2/A

FORTUNE GLOBAL 500 2024	FORBES GLOBAL 2000 2024	BRAND FINANCE 2024 TOP 500 MOST VALUABLE BRANDS	BRAND FINANCE 2024 TOP 100 MOST TECH BRANDS
# 277	# 205	# 236	# 40

GLOBAL R&D STRATERGY

4 Research Institutes
- Central Academy
- Industrial Technology Research Institute
- Industrial Technology Research Institute
- AI Research Institute

33 R&D Centers

25% Masters & PhDs

50+ Core Laboratory

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

Inhouse Production Lines
Beijing & Anqing Manufacturing Cneter

100 K GMP Cleanroom

Lighthouse / Digital Factory

QUALITY CONTROL

130 M Dollars Investment

1 st 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

5/6kW | 5/10/15/20/30kWh

SYSTEM CONFIGURATION / MULTIPLE SYSTEM SIZING

5, 6kW/5kWh

Hybrid inverter × 1
BMS Control box × 1
Battery pack × 1
Base × 1

5, 6kW/10kWh

Hybrid inverter × 1
BMS Control box × 1
Battery pack × 2
Base × 1

5, 6kW/15kWh

Hybrid inverter × 1
BMS Control box × 1
Battery pack × 3
Base × 1

5, 6kW/20kWh

Hybrid inverter × 1
BMS Control box × 2
Battery pack × 4
Base × 2
2m parallel cable ×1

5, 6kW/30kWh

Hybrid inverter × 1
BMS Control box × 2
Battery pack × 6
Base × 2
2m parallel cable × 1

10
Years Warranty

Hybrid Inverter &
Battery Packs

3
Levels support

Online support + local support
+ experts onsite

24
Hours response

Response in time
Parts stock in Australia

Intelligent Warehousing

Building up logistics system, one-stop supply of equipment and accessories to shorten delivery time.

Remote Support

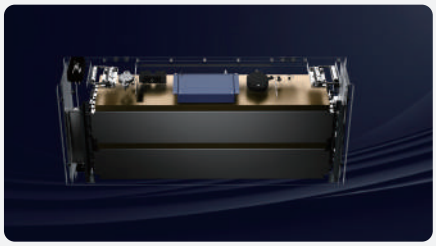
Online remote support, discover field problems via data logger. Based on demand of customers and partners, provide support within 24 hours.

Local After-sales Team

Local after-sales team from Hiconics will be able to provide onsite technical support and offer training regarding the product installation and after-sales issues.

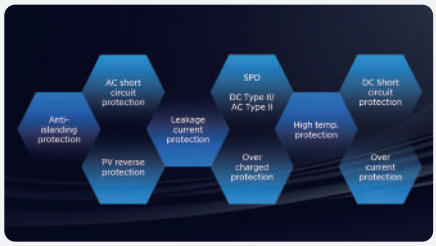
Fast, flexible and accurate response to maximize customer personalized needs.

ULTIMATE SAFETY



5 Level cell Protection

Advanced Thermal Management



System Protection

EASY INSTALLATION

Stackable Modular Design

Quick Plug, No Extra Wiring

Quick Installation and Commissioning

RESIDENTIAL INTEGRATION

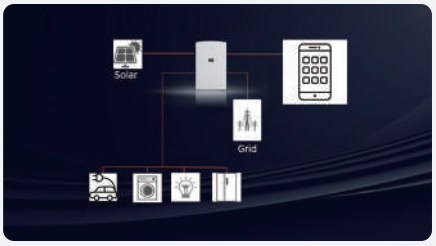
Durable Design for Extreme Conditions

Aesthetic & Harmonious Design

Quiet Operation

SMART CONTROL

3rd Party EMS Compatibility



TOU

Seamless On/Off Grid Transition

ON-GRID AND OFF-GRID SUPPORTED

Compatible with both grid-connected and standalone systems

Ideal for homes with backup power needs or remote locations

VPP CAPABILITY

Can be coordinated via Virtual Power Plant (VPP) networks

Enables participation in energy trading and grid services

※CEC Approved Product

Listed by the Clean Energy Council (CEC), Australia — compliant with local standards and eligible for government rebates.

PRODUCT PARAMETER

		HEC2-S5.0Hr2	HEC2-S6.0Hr2
PV Input	Max.PV array power[W]	3750/3750	
	Max.DC voltage[V]	600	
	Nominal DC operating voltage[V]	360	
	MPPT voltage range[V]	100-540	
	MPP voltage range for nominal power[V]	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]	85-400	
	Battery voltage range for nominal power[V]	225-400	250-400
	Recommended battery voltage[V]	300	
	Max.charge/discharge current[A]	25/25	
	Communication interfaces	RS485/CAN	
	Reverse connect protection	Yes	
AC Grid Side (On-grid)	Nominal AC output power[W]	5000	6000
	Max.Output Power(W)	5000	6000
	Nominal Apparent Power Output to Utility Grid (VA)	5000	6000
	Max. Apparent Power Output to Utility Grid (VA)	5000	6000
	Nominal Apparent Power from Utility Grid (VA)	5000	6000
	Max. Apparent Power from Utility Grid (VA)	6000	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]	21.7A a.c	26.1A a.c
	Rate output AC current to Utility Grid[A]	21.7A a.c	26.1A a.c
	Rated AC Current From Utility Grid (A)	21.7A a.c	26.1A a.c
	Max. AC Current From Utility Grid (A)	26.1A a.c	26.1A a.c
	Power factor	~1 (Adjustable from 0.8 leading to 0.8 lagging)	
	I.THD[%]	<5@Rated power	
EPS Side	Back-up Nominal Apparent Power(VA)	5000	6000
	Nominal power[W]	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)	21.7	26.1
	Max.output current[A]	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	

Efficiency

MPPT efficiency[%]	99.9	
Euro efficiency[%]	95.2	95.2
Max.efficiency[%]	96.7	96.8
Battery charge/discharge efficiency[%]	97.6(PV-BAT), 96.0(BAT-AC)	97.6(PV-BAT), 96.0(BAT-AC)

Environment Limit

Ingress protection	IP65
Protection class	Class Ⅰ
Pollution degree	PD3
Over voltage category	Ⅲ(MAINS),Ⅱ(DC)
Operating temperature range[℃]	-20~+60（derating at +45）
Max.operation altitude[m]	<2000
Humidty	0-100%
Clooling Method	Natural Convection
User Interface	LED,APP
Communication with BMS	CAN/RS485
Communication with Meter	RS485
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 (4~6mm²)
AC Connector	Quick Plug
Standard warranty[years]	10

Standard

Safety	IEC/EN 62109-1&2, IEC62477
EMC	IEC61000-6-1, IEC61000-6-3, AS/NZS 61000.6.3, AS/NZS 61000.6.1
Environment	IEC60529, IEC60068
Efficiency	IEC61683
Certification	AS/NZS 4777.2, NRS 097-2-1, EN50549-1, G99, G98, CEI0-21, VDE-AR-N 4105

HEC2-BHPxxr2 Series	HEC2-BHP50r2	HEC2-BHP100r2	HEC2-BHP150r2
Component	Base+BMS+1*Module	Base+BMS+2*Module	Base+BMS+3*Module
Battery Capacity	5kWh	10kWh	15kWh
Battery Qty	1	2	3
Nominal Voltage[V]	102.4	204.8	307.2
Maximum protection voltage[V]	116.8	233.6	350.4
Minimum protection voltage[V]	89.6	179.2	268.8
Nominal capacity[Ah]	50	50	50
Total energy[kWh]	5.1	10.2	15.3
Nominal power [kW]	2.56	5.12	7.68
Nominal charge/discharge current[A]	25		
Max. charge/discharge current[A]	25		
Cycle life	6000 Cycles (@0.5C,90%DOD,25℃,70%SOH)		
Expected life time	10 Years (70%SOH)		
Operating Temperature (℃)	-20 to 55 (derating above 45℃)		
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		
Certification	CE, IEC62619, IEC62040, IEC60529, IEC61000, UN38.3		
Weight[kg]	69±4	124±6	179±8
External dimensions(W*H*D) (mm)	(800±20)*(530±30) *(160±20)	(800±20)*(840±30) *(160±20)	(800±20)*(1150±30) *(160±20)
Remark	1 Series		

HEC2-BHPxxr2 Series	HEC2-BHP200r2-A	HEC2-BHP300r2
Component	2*(Base+BMS+2*Module)	2*(Base+BMS+3*Module)
Battery Capacity	20kWh	30kWh
Battery Qty	4	6
Nominal Voltage[V]	204.8	307.2
Maximum protection voltage[V]	233.6	350.4
Minimum protection voltage[V]	179.2	268.8
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℃,70%SOH)	
Expected life time	10 Years (70%SOH)	
Operating Temperature (℃)	-20 to 55 (derating above 45℃)	
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)	
Certification	CE, IEC62619, IEC62040, IEC60529, IEC61000, UN38.3	
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	

Midea | HICONICS

ENERGY LINKS ALL