



HIENERGY SERIES ALL-IN-ONE RESS

Single-Phase Solution

ENERGY LINKS ALL

COMPLETE VALUE CHAIN FOR EXCELLENCE IN QUALITY DELIVERY

2024 TOTAL REVENUE
(USD)



56.82_B

2024 NET PROFIT
(USD)



5.34_B

NUMBER OF EMPLOYEES



190_{K+}

BY S&P/MOODY'S



A/A2/A

FORTUNE GLOBAL 500
2024



277

FORBES GLOBAL 2000
2024



205

BRAND FINANCE 2024 TOP
500 MOST VALUABLE
BRANDS



236

BRAND FINANCE 2024 TOP
100 MOST TECH
BRANDS



40

GLOBAL R&D STRATEGY

4

Central Academy
Industrial Technology Research
Institute
Industrial Technology Research
Institute
AI Research Institute

Research Institutes

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
Center

100_K

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

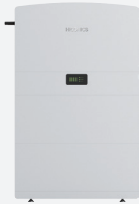
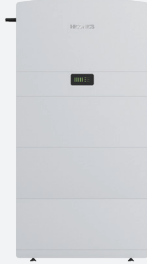
UL/CE

Certificates

HIENERGY SERIES SINGLE-PHASE ALL-IN-ONE RESS

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

SYSTEM CONFIGURATION / MULTIPLE SYSTEM SIZING

5, 6kW/5kWh	5, 6kW/10kWh	5, 6kW/15kWh	5, 6kW/20kWh	5, 6kW/30kWh
				
Hybrid inverter × 1 BMS Control box × 1 Battery pack × 1 Base × 1	Hybrid inverter × 1 BMS Control box × 1 Battery pack × 2 Base × 1	Hybrid inverter × 1 BMS Control box × 1 Battery pack × 3 Base × 1	Hybrid inverter × 1 BMS Control box × 2 Battery pack × 4 Base × 2 2m parallel cable × 1	Hybrid inverter × 1 BMS Control box × 2 Battery pack × 6 Base × 2 2m parallel cable × 1

10
Years Warranty

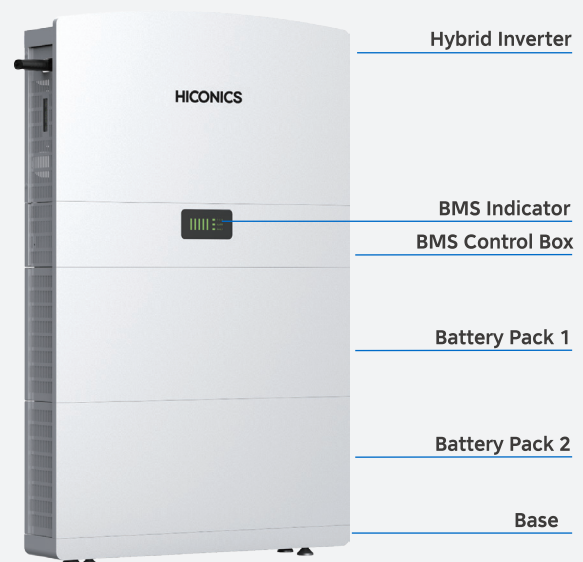
Hybrid Inverter & Battery Packs

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

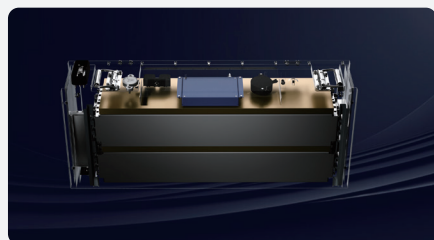
Online remote support, discover field problems via data logger. Based on demand of customers and partners, provide support within 24 hours.

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.

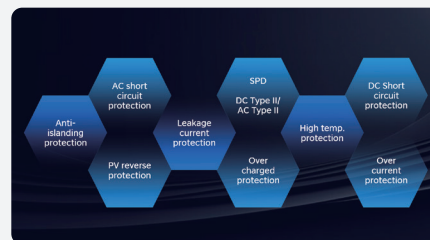
ULTIMATE SAFETY



5 Level cell Protection



Advanced Thermal Management



System Protection

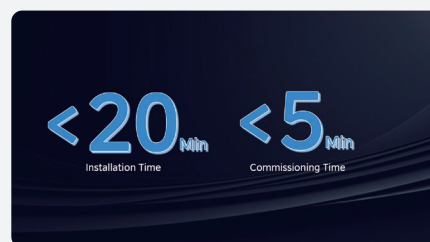
EASY INSTALLATION



Stackable Modular Design



Quick Plug, No Extra Wiring



Quick Installation and Commissioning

RESIDENTIAL INTEGRATION



Durable Design for Extreme Conditions

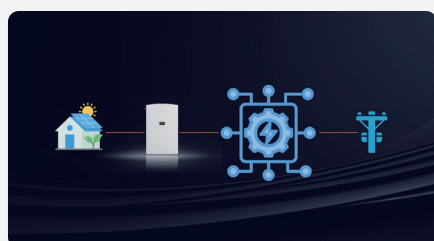


Aesthetic & Harmonious Design

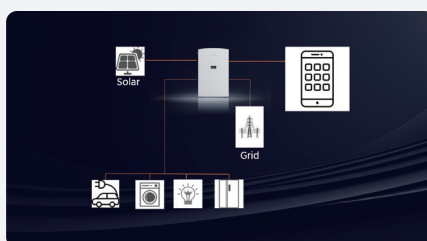


Quiet Operation

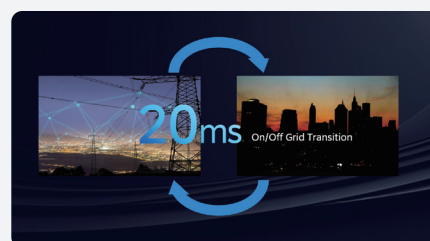
SMART CONTROL



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
	Max.efficiency[%]	96.7
	Battery charge/discharge efficiency[%]	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[°C]	-20~+60 (derating at +45)
	Max.operation altitude[m]	<2000
	Humidity	0-100%
	Cooling 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 (4~6mm ²)
	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°C,70%SOH)		
Expected life time	10 Years (70%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		
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°C,70%SOH)	
Expected life time	10 Years (70%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)	
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	

