

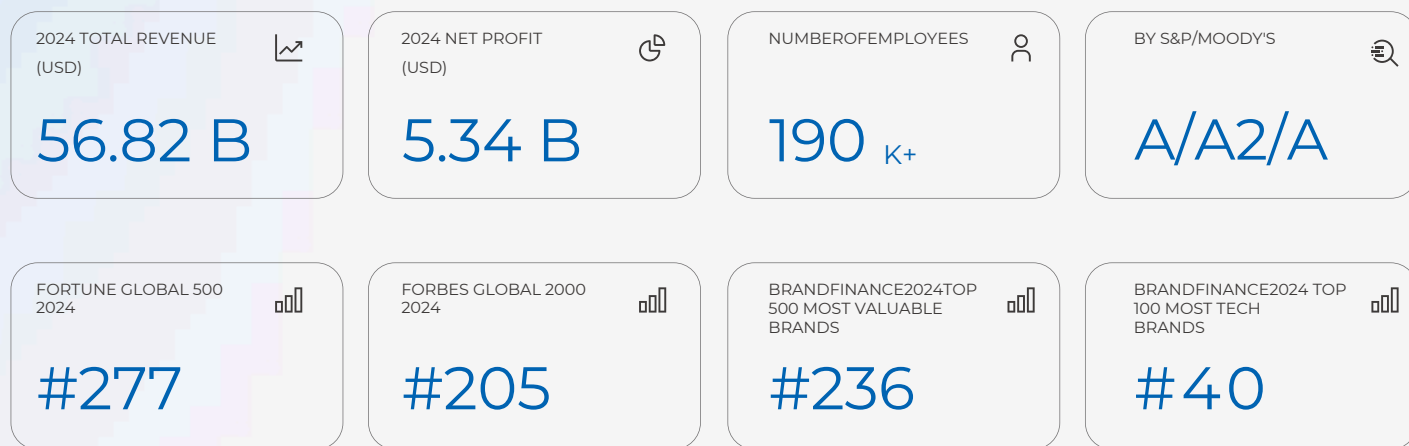


# HIENERGY SERIES ALL-IN-ONE RESS

Single-Phase Solution

# ENERGY LINKS ALL

COMPLETE VALUE CHAIN FOR EXCELLENCE IN QUALITY DELIVERY



## GLOBAL R&D STRATEGY



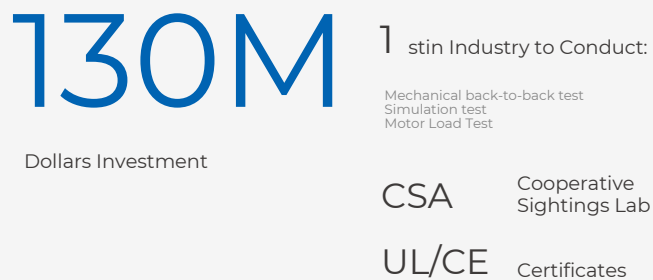
## BILLION LEVEL SUPPLY CHAIN



## INTELLIGENT MANUFACTURING



## QUALITY CONTROL



# 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]	500		600
	Max.Output Power(W)	0		0
	Nominal Apparent Power Output to Utility Grid (VA)	500		600
	Max. Apparent Power Output to Utility Grid (VA)	0		0
	Max. Apparent Power Output to Utility Grid (VA)	500 5000		600 6000
	Nominal Apparent Power from Utility Grid (VA)	0		0
	Max. 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.TH.D[%]	<5@Rated power			
EPS Side	Back-up Nominal Apparent Power(VA)	500		600
	Nominal power[W]	0		0
	Max. Output Apparent Power without Grid (VA)	500	7500@10sec	600
	Max. Output Apparent Power with Grid (VA)	0		0
	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] Topology Self-consumption at Night (W) DC	34 Non-isolated
	Connector AC Connector	<25 MC4 (4~6mm2)
Standard warranty[years]	Quick Plug 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	

**VICTORIA'S**  
**ENERGY TRANSITION**

[victoriasenergytransition.com.au](http://victoriasenergytransition.com.au)