

## PRODUCT PARAMETER

HEC2-S6.0Hr2 | HEC2-S5.0Hr2 | HEC2-S3.8Hr2 | HEC2-S3.68Hr2

PV Input

Max.PV array power[W]	3750/3750			
Max.DC voltage[V]	600 <sup>3</sup>			
Nominal DC operating voltage[V]	360			
MPPT voltage range[V]	100-540			
MPP voltage range for nominal power[V] <sup>5</sup>	225-480	185-480	141-480	137-480
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 <sup>4</sup> -400			
Battery voltage range for nominal power[V]	250-400	225-400	170-400	160-400
Recommended battery voltage[V]	300			
Max.charge/discharge current[A] <sup>2</sup>	25/25			
Communication interfaces	RS485/CAN			
Reverse connect protection	Yes			

AC Grid Side (On-grid)

Nominal AC output power[W]	6000 <sup>1</sup>	5000 <sup>1</sup>	3800	3680
Max.Output Power(W)	6000 <sup>1</sup>	5000 <sup>1</sup>	3800	3680
Nominal Apparent Power Output to Utility Grid (VA)	6000 <sup>1</sup>	5000 <sup>1</sup>	3800	3680
Max. Apparent Power Output to Utility Grid (VA)	6000 <sup>1</sup>	5000 <sup>1</sup>	3800	3680
Nominal Apparent Power from Utility Grid (VA)	6000	5000	3800	3680
Max. Apparent Power from Utility Grid (VA)	6000	6000 <sup>6</sup>	6000 <sup>6</sup>	6000 <sup>6</sup>
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]	26.1A a.c	21.7A a.c	16.5A a.c	16A a.c
Rate output AC current to Utility Grid[A]	26.1A a.c	21.7A a.c	16.5A a.c	16A a.c
Rated AC Current From Utility Grid (A)	26.1A a.c	21.7A a.c	16.5A a.c	16A a.c
Max. AC Current From Utility Grid (A)	26.1A a.c	26.1 <sup>6</sup> A a.c	26.1 <sup>6</sup> A a.c	26.1 <sup>6</sup> A a.c
Power factor	~1 (Adjustable from 0.8 leading to 0.8 lagging)			
I.THd[%]	<3@Rated power		<5@Rated power	

EPS Side

Back-up Nominal Apparent Power(VA)	6000	5000	3800	3680
Nominal power[W]	6000	5000	3800	3680
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)	26.1	21.7	16.5	16
Max.output current[A]	26.1	21.7	16.5	16
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	95.0	95.0
Max.efficiency[%]	96.8	96.7	96.5	96.5
Battery charge/discharge efficiency[%]	97.6(PV-BAT), 96.0(BAT-AC)	97.6(PV-BAT), 96.0(BAT-AC)	97.6(PV-BAT), 95.4(BAT-AC)	97.6(PV-BAT), 95.4(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	0-95%
Cooling Method	Natural Convection
User Interface	LED,APP
Communication with BMS	CAN/485
Communication with Meter	485
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
Environment	IEC60529,IEC60068
Efficiency	IEC61683
Certification	EN50549-1,G99,G98,CEI021,VDE4105,AS4777.2,NRS-097

### Remark:

- \*1: The grid feed in power for VDE4105 is limited 4600VA.
- \*2: Battery charging current is limited 25A and power is limited 6000W.
- \*3: The machine may be damaged if PV port exceeds this voltage, full power operation voltage should be less than 480V, 480V-540V for limited power operation.
- \*4: Battery port boot voltage must be greater than 95V.
- \*5: The power is 6000W according to the grid port.
- \*6: The value will appear when the grid is charging battery and support EPS load.

Midea | HICONICS



# HIENERGY SERIES ALL-IN-ONE RESS

All-in-one Solution

## BUSINESS PROFILE AT A GLANCE

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 2023



# 278

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 Global Manufacture Centers

100 K GMP Cleanroom

Inhouse Production Lines  
Beijing & Anqing Manufacturing Center

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 ALL-IN-ONE RESS



### EASY & QUICK INSTALLATION

No cable  
Between batteries

70%  
Less wiring time

### ALL-IN-ONE & MODULAR DESIGN

Easier transportation, Handling and installation

### PEACE OF MIND

10 Years Warranty

No spare parts, always replacement

### 5 LAYER PROTECTION

Explosion-proof Valve

Aerosol

V0 Anti-fire material

High-temperature Resistance cable

System protection Function

### ARTISTICAL DESIGN

16 cm slim

Child & pet friendly: Hidden cabling

IP65 Outdoor rating