

Environment Limit

DIMENSION AND WEIGHT

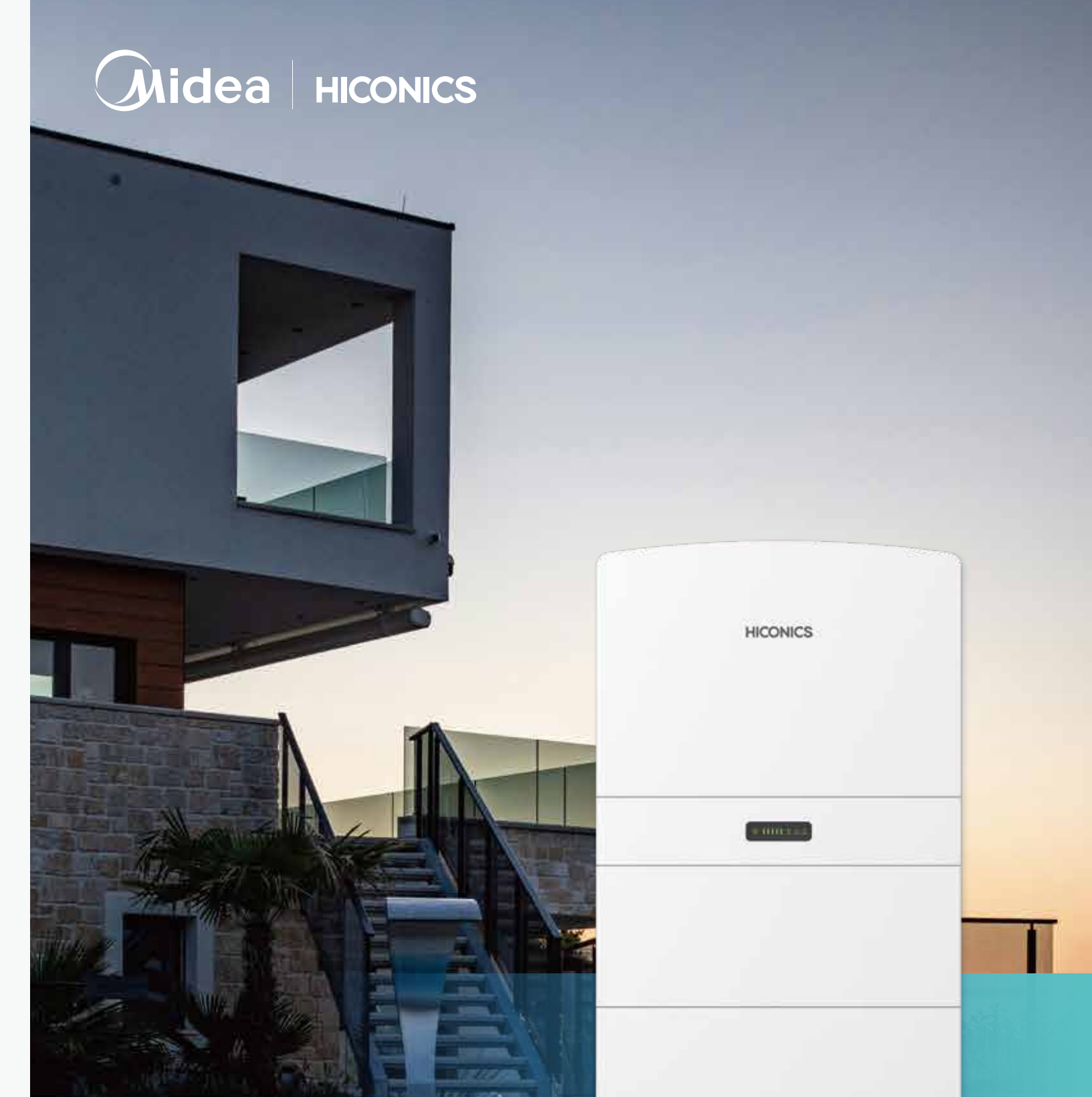
Three Phase Inverter	HEC2-T8.0Hr2-Eu	HEC2-T10.0Hr2-Eu	HEC2-T12.0Hr2-Eu	HEC2-T15.0Hr2-Eu
Ingress protection	IP65			
Protection class	Class I			
Pollution degree	PD3 (Outside)/PD2 (Inside)			
Over voltage category	Over voltage category Mains III Over voltage category PV/Battery II			
Operating temperature range[°C]	-20~60(derating at 45)			
Max. operation altitude[m]	<3000			
Humidity	0-95%			
Storage temperature[°C]	-40~70			
Typical noise emission[dBA]	<45			
Communication with BMS	CAN / RS485			
Communication with Meter	RS485			
Communication with Portal	RS485			

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°C,60%SOH)		
Expected life time	10 Years (60%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		
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	HEC2-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°C,60%SOH)		
Expected life time	10 Years (60%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)		
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

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**

### 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

**100%** Quality Sampling

Top **5** Supplier Resources

#### 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: **CSA** Cooperative Sightings Lab

**UL/CE** Certificates

Mechanical back-to-back test  
Simulation test  
Motor Load Test

### 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

- 3<sup>rd</sup> Party EMS Compatibility
- TOU(6 time schedule & support maximum power buying setting ), saving more + VPP Ready
- Seamless On/Off Grid Transition

#### PRODUCT PARAMETER

	HEC2-T8.0Hr2-Eu	HEC2-T10.0Hr2-Eu	HEC2-T12.0Hr2-Eu	HEC2-T15.0Hr2-Eu
PV Input	Three Phase Inverter			
	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				
THD[i%] <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)			