

Midea | HICONICS

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ENERGY LINKS ALL



ENERGY LINKS ALL

LEADING ODM PROVIDER OF GREEN ENERGY PRODUCTS

Hiconics was founded in 2003 and listed on the Shenzhen Stock Exchange in 2010 with the stock code "300048". Focusing on the three main businesses of household energy storage and photovoltaic inverters, distributed photovoltaic EPCs, and medium and low voltage VFDs, Hiconics has continued to promote independent innovation for many years and is committed to becoming the world's leading product provider in the field of new energy and energy-saving industrial control. In 2020, Midea Group became the controlling shareholder of Hiconics, further improving the company's internal management level and assisting in the in-depth coordination and empowerment of industrial resources.

The company has more than 1,000 employees, of which about 20% are core scientific research and development personnel, and has more than 200 authorized patents. Through offices all over the world and a perfect after-sales service network, the products are sold to more than 30 countries and regions around the world, providing global customers with a full range of green, efficient and intelligent products and technical solutions.

BUSINESS PROFILE AT A GIANCE

FORTUNE
GLOBAL
500

Midea



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

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

5

Top 5 Supplier Resources

100%

Quality Sampling

ODM VALUE CHAIN A REPEATABLE PATH FOR EXCELLENCE IN QUALITY DELIVERY

INTELLIGENT MANUFACTURING

50+

Years Manufacturing Experience



Inhouse Production Lines
Beijing & Anqing Manufacturing Center



Lighthouse / Digital Factory

40

Global Manufacture Centers

100_K

GMP Cleanroom

QUALITY CONTROL

1_{ST}

In Industry to Conduct:

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

130_M

Dollars Investment

CSA

Cooperative Sightings Lab

UL/CE

Certificates

FULL RANGE OF RESIDENTIAL GREEN ENERGY



1
HIENERGY SERIES
ALL-IN-ONE RESS



2
PV INVERTERS



3
SPLIT-PHASE
ALL-IN-ONE RESS



4
EV CHARGER

5
2-IN-1
HIMAX SERIES
MICROINVERTER

HIENERGY SERIES ALL-IN-ONE RESS

All-in-one Solution



HIENERGY SERIES SINGLE-PHASE ALL-IN-ONE RESS



ALL-IN-ONE & MODULAR DESIGN

10-30kWh Flexible configuration

Easier transportation, Handling and installation

EASY & QUICK INSTALLATION

Quick Plug Design To significantly reduce installation time

70% Less wiring time

PEACE OF MIND

10 Years warranty for PCS & battery packs

5 Level Pack-level safety design

Fanless Fanless design, more reliable

AESTHETICS FOR THE FUTURE

All-in-one Integration compact design concept

User-based aesthetic design fits with differentiated home with your brand styling

PRODUCT PARAMETER

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

	HEC2-S3.68Hr2	HEC2-S3.8Hr2	HEC2-S5.0Hr2	HEC2-S6.0Hr2	
PV Input	Max.PV array power[W]				3750/3750
	Max.DC voltage[V]				600 ^{*3}
	Nominal DC operating voltage[V]				360
	MPPT voltage range[V]				100-540
	MPP voltage range for nominal power[V] ^{*5}				137-480 141-480 185-480 225-480
	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 ^{*4} -400
	Battery voltage range for nominal power[V]				160-400 170-400 225-400 250-400
	Recommended battery voltage[V]				300
	Max.charge/discharge current[A] ^{*2}				25/25
	Communication interfaces				RS485/CAN
Reverse connect protection				Yes	
AC Grid Side (On-grid)	Nominal AC output power[W]				3680 3800 5000 ^{*1} 6000 ^{*1}
	Max.Output Power(W)				3680 3800 5000 ^{*1} 6000 ^{*1}
	Nominal Apparent Power Output to Utility Grid (VA)				3680 3800 5000 ^{*1} 6000 ^{*1}
	Max. Apparent Power Output to Utility Grid (VA)				3680 3800 5000 ^{*1} 6000 ^{*1}
	Nominal Apparent Power from Utility Grid (VA)				3680 3800 5000 6000
	Max. Apparent Power from Utility Grid (VA)				6000 ^{*6} 6000 ^{*6} 6000 ^{*6} 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]				16A a.c 16.5A a.c 21.7A a.c 26.1A a.c
	Rate output AC current to Utility Grid[A]				16A a.c 16.5A a.c 21.7A a.c 26.1A a.c
	Rated AC Current From Utility Grid (A)				16A a.c 16.5A a.c 21.7A a.c 26.1A a.c
	Max. AC Current From Utility Grid (A)				26.1 ^{*6} A a.c 26.1 ^{*6} A a.c 26.1 ^{*6} A a.c 26.1A a.c
Power factor				~1 (Adjustable from 0.8 leading to 0.8 lagging)	
I.TH[D][%]				<3@Rated power <5@Rated power	
EPS Side	Back-up Nominal Apparent Power(VA)				3680 3800 5000 6000
	Nominal power[W]				3680 3800 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)				16 16.5 21.7 26.1
	Max.output current[A]				16 16.5 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[%]	95.0	95.0	95.2	95.2
Max. efficiency[%]	96.5	96.5	96.7	96.8
Battery charge/discharge efficiency[%]	97.6(PV-BAT), 95.4(BAT-AC)	97.6(PV-BAT), 95.4(BAT-AC)	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[°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 (4~6mm ²)
AC Connector	Quick Plug
Standard warranty[years]	10

Standard

Safety	IEC/EN 62109-1&2, IEC62477
EMC	IEC61000-6-1, IEC61000-6-3
Environment	IEC60529,IEC60068
Efficiency	IEC61683
Certification	EN50549-1,G99,G98,CEI021,VDE4105,AS4777.2,NRS-097

HEC2-BHPxxr2 Series	HEC2-BHP50r2-EU	HEC2-BHP100r2-EU	HEC2-BHP150r2-EU	HEC2-BHP200r2-EU
Component	Base+BMS+1*Module	Base+BMS+2*Module	Base+BMS+3*Module	Base+BMS+4*Module
Nominal Voltage[V]	102.4	204.8	307.2	409.6
Maximum protection voltage[V]	116.8	233.6	350.4	467.2
Minimum protection voltage[V]	89.6	179.2	268.8	358.4
Battery module	Module*1	Module*2	Module*3	Module*4
Nominal capacity[Ah]	50	50	50	50
Total energy[kWh]	5.1	10.2	15.3	20.4
Nominal power [kW]	2.56	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)			
Nominal Apparent Power Output to Utility Grid (VA)	-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]	69±4	124±6	179±8	234±10
External dimensions(W*H*D) (mm)	(800±20)*(530±30) *(160±20)	(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
Component	2*(Base+BMS+2*Module)	2*(Base+BMS+3*Module)
Nominal Voltage[V]	204.8	307.2
Maximum protection voltage[V]	233.6	350.4
Minimum protection voltage[V]	179.2	268.8
Battery module	Module*4	Module*6
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,60%SOH)	
Expected life time	10 Years (60%SOH)	
Nominal Apparent Power Output to Utility Grid (VA)	-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
External dimensions(W*H*D) (mm)	(1600±20)*(840±30) *(160±20)	(1600±20)*(1150±30) *(160±20)
Remark	2 Series Parallel	

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 voltege must be greater than 95V.
- *5: The power is 6000W accordting to the grid port.
- *6: The value will appear when the grid is charing battery and support EPS load.

HIENERGY SERIES THREE-PHASE 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

PRODUCT PARAMETER

	HEC2-T8.0Hr2-Eu	HEC2-T10.0Hr2-Eu	HEC2-T12.0Hr2-Eu	HEC2-T15.0Hr2-Eu
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			
THDi[%]	<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)			

Environment Limit

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 AND WEIGHT

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-BHP200r2-A-EU	HEC2-BHP300r2-A-EU
Component	2*(Base+BMS+2*Module)	2*(Base+BMS+3*Module)
Nominal Voltage[V]	204.8	307.2
Maximum protection voltage[V]	233.6	350.4
Minimum protection voltage[V]	179.2	268.8
Battery module	Module*4	Module*6
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,60%SOH)	
Expected life time	10 Years (60%SOH)	
Nominal Apparent Power Output to Utility Grid (VA)	-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
External dimensions(W*H*D) (mm)	(1600±20)*(840±30) *(160±20)	(1600±20)*(1150±30) *(160±20)
Remark	2 Series Parallel	

HEC2-BHPxxr2 Series	HEC2-BHP50r2-EU	HEC2-BHP100r2-EU	HEC2-BHP150r2-EU	HEC2-BHP200r2-EU
Component	Base+BMS+1*Module	Base+BMS+2*Module	Base+BMS+3*Module	Base+BMS+4*Module
Nominal Voltage[V]	102.4	204.8	307.2	409.6
Maximum protection voltage[V]	116.8	233.6	350.4	467.2
Minimum protection voltage[V]	89.6	179.2	268.8	358.4
Battery module	Module*1	Module*2	Module*3	Module*4
Nominal capacity[Ah]	50	50	50	50
Total energy[kWh]	5.1	10.2	15.3	20.4
Nominal power [kW]	2.56	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)			
Nominal Apparent Power Output to Utility Grid (VA)	-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]	69±4	124±6	179±8	234±10
External dimensions(W*H*D) (mm)	(800±20)*(530±30) *(160±20)	(800±20)*(840±30) *(160±20)	(800±20)*(1150±30) *(160±20)	(800±20)*(1460±30) *(160±20)
Remark	1 Series			



SPLIT-PHASE ALL-IN-ONE RESS

8+4-Layer Safety Strategy

SPLIT-PHASE ALL-IN-ONE RESS

| 8+4-LAYER SAFETY STRATEGY

8 Layer Battery Safety Protection

- Anti-condensation protection
- Cells preload design in whole life-cycle
- High-temperature resistance insulated pad
- Built-in fire extinguisher
- Aerogel insulated pads
- Decompression valve
- 8 temperature sensors
- 5mV Voltage detect accuracy

4 Layer System Protection

- PV disconnection protection
- DC ground-fault protection
- Grid fault protection
- DC bus protection



| FLEXIBLE INVESTMENT

90 kWh
Modular design, scalable up to

Multiple
Scenario application

Mixed Use
Old & new batteries

| DURABLE & ARTISTICAL

Tahiti Grey
Elegant colour


NEMA 4X
Enclosure

6.7'
Slim

| CAPABLE & SIMPLE

25 min Quick installation

50% Commissioning time-saving

 Guided quick connectors between batteries

PRODUCT PARAMETER

7.6kW Datasheet For North America | 11.4kW Datasheet For North America (draft)

PV INPUT (ONLY FOR HYBRID)	Max. Solar STC Power [W]	15200	22800	
	Max. Input Voltage [V]	550		
	Start-up Input Voltage [V]	100		
	Rated Input Voltage [V]	380		
	MPPT Operating Voltage Range [V]	80-500		
	MPPT Operating Voltage Range [V] (Full Load)	250-500	285-500	
	Max. Input Current [A]	20/20/20	40/20/20	
	Max. Short-circuit Current [A]	25/25/25	50/25/25	
	No. of MPP Trackers	3		
	No. of Strings per MPP Tracker	1/1/1	2/1/1	
BATTERY	Max. Charge/Discharge Power (W)	7600	11400	
	Battery Normal Voltage (V)	400		
	Battery Voltage Range (V)	325-495		
	Battery Type	LFP		
	Capacity (KWH)	15 \ 20		
	Expected Life Time	10 Years		
	Battery Communication	CAN / RS485		
Gen Input & AC Grid (Input)	Max Input power (W)	7600	11400	
	Max. Input Continuous Current (A)	31.7	47.5	
	Input Voltage Range(V)	211-264@240		
	Nominal Grid Frequency (Hz)	60		
Back-up (output)	Rated output power (W)	7600	11400	
	Max. Output Apparent Power [VA]	7600	11400	
	Max. Peak Power (VA) (10S)	11400	15390	
	Rated AC output current (A)	31.7	47.5	
	Load Start Capacity [A]	90	110	
	Nominal AC Voltage L-L (V)	240		
	Nominal AC Voltage L-O (V)	120		
	Nominal AC Frequency (Hz)	60		
	Power Factor	>0.99 (0.8 leading - 0.8 lagging)		
	THDv(@linear load) (%)	< 3 @rated power		
	Imbalance for Split-Phase Loads [%]	100		
	Efficiency	Max. Efficiency (%)	97.6	
		CEC Efficiency (%)	97	
Max. BAT Discharge Efficiency (BAT to AC) (%)		97.4		
Round Trip Efficiency		89		
MPPT Efficiency (%)		99.9		
Protection	PV Reverse Polarity Protection	YES		
	Bat. Reverse Polarity Protection	YES		
	Over Current/Voltage Protection	YES		
	Anti-Islanding Protection	YES		
	AC Short Circuit Protection	YES		
	Ground Fault Monitoring	YES		
	Residual Current Detection	YES		
	Insulation Resister Detection	YES		
	PV Arc Detection	YES		
	Rapid Shut Down	YES		

General Data

Dimensions (W x H x D) (mm)	28*66.5*6.7 inch (710*1690*170 mm)
Weight	Inverter: 71Lbs (32.5Kg) ; System: 397 Lbs (180Kg, Modular Design, no special tools needed)
Topology	Tranformerless
Cooling	Natural convection
Relatively Humidity	0 - 100 % (No Condensation)
Operating Temperature	Inverter: -13F ~ 140F (-25°C ~ 60°C) System: -4F ~ 131F (-20°C ~ 55°C)
Storage Temperature	-4F ~ 140F (-20°C ~ 60°C)
Protection Degree	NEMA4X(hybrid),NEMA3R(hybrid+battery)
Operating Altitude	< 9842 Ft (3000m)
Noise Emission (dB)	< 40 @1m
Mounting	Floor standing/Wall-mounted
Communication with RSD	SUNSPEC
Display & Communication Interfaces	LED / RS485, CAN, Wi-Fi,USB
Certification & Approvals	PV: UL 1699B, UL 1741, UL 3741, UL 1741 SA, UL1741 SB, UL1998 (US), IEEE 1547, IEEE 1547.1 Battery: UL 1973, UL 9540, UL9540A, UL9540B, IEEE 1547, IEEE 1547.1, UN 38.3
EMC	FCC part15 CLASS B
Others	Revenue grade metering, ANSI C12.20 operation mode: Backup, self-consumption, TOU, Demand Charge, NEM Integrity

Performance Specification

Grid Voltage (V)	120/240
Feed-In Type	Split Phase
Grid Frequency (Hz)	60
Current Rating (A)	200
Maximum Input Short Circuit Current (kA)	22
Overcurrent Protection Device	Hiconics Hybrid Inverter: 50A Existing Solar (3rd Party): 80A Diesel Generator: 200A Smart Circuits: Circuit 1/80A; Circuit 2&3/50A Non Backup: 160A Backup: 200A
AC Meter	CT: 200 A split core current transformers for metering / 200 A clamp-type current transformers for metering

General Data

User Interface	App
Operating Modes	Self-Power/Backup Standby/TOU
Backup Transition	Seamless switch to backup mode
Modularity	allow up to 3 units
Warranty	10 years
Dimensions (W x H x D) (mm)	800×530×160
Weight (kg)	23
Mounting options	Wall Mounted
Certifications	UL 1741, UL 1741 SA, IEEE 1547:2018 (UL 1741-SB, 3rd Ed.), UL 1741 PCS CRD, UL67, UL1 998, UL 869A, CSA 22.2 No. 107.1, 47 CFR Part 15 Class B, ICES 003, ICC ES AC156.
Operating Temperature	-40°C to 50°C
Operating Humidity (RH)	Up to 100%, condensing
Operating Altitude	9842 Ft (3000m)
Environment	Indoor and outdoor rated
Enclosure Type	NEMA 3R



PV INVERTERS

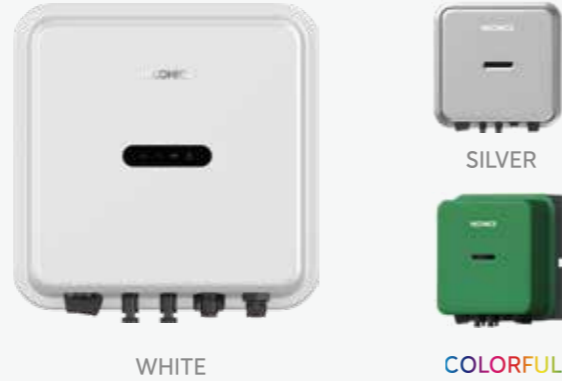
Highly Customized for Stylish Appearance

STYLISH DESIGN-MAKE YOUR BRAND MORE STYLISH

CATHEDRAL



AMAZON



LENCIS



CARNIVAL



HIGH YIELD

20A String current:
Compatible with all 182/210 PV modules

V Lower startup voltage &
wider MPPT voltage range

Dual MPPT With 1.5
DC/AC ratio

☀ Dynamic shading
optimization mode

PROVEN RELIABILITY

IP66 Protection

AFCI Function
Support

🏠 Intelligent
Networking

EASY TO SETUP

🔌 Plug & play
Installation

📏 Compact &
Lightweight design

⚡ Adapted to
Diesel generators

PRODUCT PARAMETER

Model	3k	3.6k	4k	4.6k	5k	6k	
Input (DC)	Max.input Voltage						550V
	MPPT voltage range/rated input voltage						80V~520V/360V
	Initial.feeed-in voltage						100V
	Max.operating input current						20/20A
	Max.short circuit current						25/25A
	No.of independent MPPT inputs/strings per						2/1+1
Output (AC)	Rated active power	3000W	3600W	4000W	4600W	5000W	6000W
	Max.apparent power	3300VA	3960VA	4400VA	5000VA	5500VA	6600VA
	Max.output current	15A	16A	20A	22.7A	25A	27.3A
	AC nominal voltage	240V					
	AC Grid frequency	50/60Hz					
	Adjustable power factor	~1 (Adjustable from 0.8 leading to 0.8 lagging)					
	THDi	<3%					
	DC injection current	<0.5%					
	Max.efficiency	97.40%					97.60%
	EU.efficiency	96.60%					96.80%
Efficiency & Protection	DC Switch						✓
	Ground fault monitoring						✓
	Surge Protection						✓
	DC reverse polarity protection						✓
	AC short circuit protection						✓
	Islanding Protection						✓
	Over Voltage Protection						✓
	Over Current Protection						✓
	Under Voltage Protection						✓
	All-pole-sensitive residual-current monitoring						✓
	Shadow recognition						✓
	AFCI Protection						✓
Compatible with Generator						Optional	
General Data	Dimension(L*W*H)	360*360*166mm					
	Weight	12kg					
	Operating temperature range	-25°C ~ +65°C					
	Max. permissible value for relative humidity (non-condensing)	100%					
	Topology	Non-isolated					
	Cooling concept	Natural Convection					
Features	Altitude	4000					
	Degree of protection	IP66					
	DC connection	MC4 connector					
	AC connection	Quick connection plug					
	Display	LED+APP					
	Communication	Wi-Fi/4G/GPRS/RS485 (Optional)					
Certificates and approvals	UL1741, UL1741 SA, UL 1741 SB, 1699B, IEEE 1547, 1547.1, FCC Part 15 Class B						

EV CHARGER

Smart Charging





CHARGE ANYTIME



Remote control, troubleshooting & upgrading



Timer charging mode



Dynamic charging power control



Priority use of green energy



Intelligent user authentication function



CHARGE ANYWHERE



Automatic phase switching between single & three-phase

IP65

For worry-free outdoor usage



EASY TO USE



Plug-and-charge function



Compact & Light weight design



Support Wi-Fi & 4G

PRODUCT PARAMETER

Model

11KW

Input cord	NAMA 6-50 or NAMA 14-50
Input power wiring	L1、L2、PE(Earth)
Rated output power [kW]	11.5
Max. output power [kW]	12
Rated input voltage [V]	208/240
Rated output voltage [V]	208/240
Max.input current [A]	50
Max. output current [A]	50
Grid Frequency [Hz]	60
Connector Type and length	SAE J1772,5-meter standard configuration, 7.5-meter optional
Protection	AC Overvoltage/Undervoltage, AC Short Circuit, AC Overcurrent, AC Current Leakage, Input Ground Fault, Output Ground Fault, AC Surge, Emergency Stop
Ingress protection	IP65
Shell collision class	IK10
Pollution degree	PD3
Operating temperature range [°C]	-30~+50(derating at +50.5)
Max. operation altitude [m]	<2000
Relative humidity	0-95%
Cooling method	Natural Convection
User interface	LED,LCD,APP
Communication with APP	BLE (bluetooth low energy)
Communication with EMS	RJ45
Communication with meter	RS485
Communication with portal	WIFI/4G/3G(Operating cloud: OCPP1.6J or other, maintain cloud:midea)
Typical noise emission [dB]	<40
Dimension (W*H*D) [mm]	233*341*110
Weight [kg]	5
Topology	Non-isolated
Self-consumption at night [W]	<5
Storage temperature [°C]	-40~+80
Standard warranty [years]	4

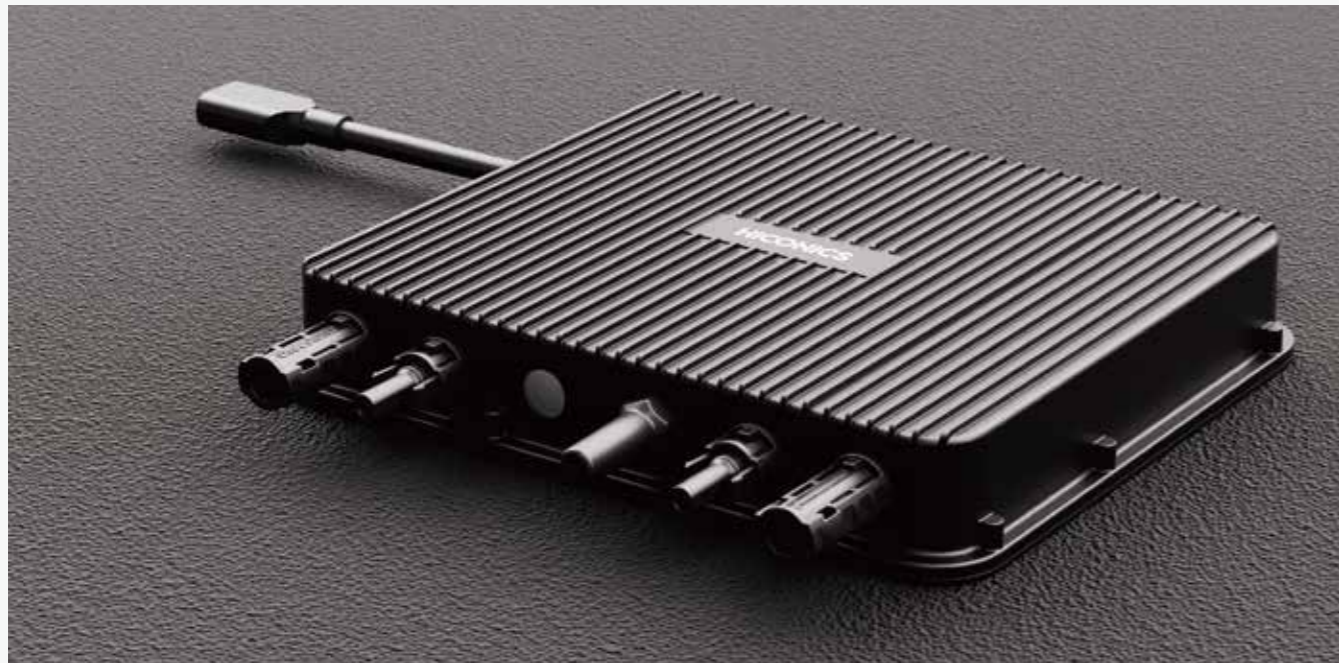
Standard Compliance

technical specifications	UL2594, UL2231-1,UL2231-2,For Canada CSA C22.2, No. 280, 281.1, 281.2, CEC
EMC	FCC Part 15 Class B
connector	SAE J1772

2-IN-1 HIMAX SERIES MICROINVERTER

Get Maximized Use of Your Solar Energy





GET MAXIMIZED USE OF YOUR SOLAR ENERGY

IP67 Enclosure ratings

20 Years limited warranty

2-in-1 & quick-plug design

P Flexible reactive power control

880VA Max power output

Wi-Fi Automatic Wi-Fi mesh communication

PRODUCT PARAMETER

Commonly used module power (W)	320-540
Peak power MPPT voltage range (V)	32-45
Start-up voltage (V)	≤22
Operating voltage range (V)	16-60
Maximum input voltage (V)	60
Maximum input current (A)	2*14
Maximum input short circuit current (A)	25
Number of MPPTs	2
Number of inputs per MPPT	1
Rated output power (VA)	800
Maximum continuous output power (VA)	880
Maximum continuous output current (A)	3.5
Nominal output voltage (V)	240/211-264
Nominal frequency/range (Hz)	60/58-61
Power factor (adjustable)	0.99/0.8 leading...0.8 lagging
Total harmonic distortion	< 3 %
Max efficiency	95.70%
Nominal MPPT efficiency	>99.8%
Ambient temperature range (°C)	- 40 °C to + 65 °C
Dimensions (W × H × D mm)	246*236*40.5
Weight (Kg)	≤3.7Kg
Enclosure rating	IP67
Cooling	Free Cooling
Communication	Wi-Fi
Safety Compliance	Safety Compliance: UL1741; CSA C22.2 No. 107.1-16; UL1741SA; UL1741SB; IEEE1547; Rule 21; SRD-V2.0; FCC Part15; 690.12 Rapid Shutdown of PV systems on Buildings

MIRCO ENERGY STORAGE SYSTEM

Multi-scenario Application





HYBRID INVERTER



Supply power even on-grid/off-grid



Supply power from solar

BATTERY PACK 1

2.5kWh LFP Battery pack

SUPPORTS CAPACITY EXPANSION

4 Maximum 4 Battery can be expansion

10kWh Capacity of the system can reach



HOME APPLIANCE DESIGN

All-in-one



Support desktop placement & use

MULTI-SCENARIO APPLICATION



Balcony energy storage



Energy supply when the grid is off



Portable outdoor power supply

PRODUCT PARAMETER

PV/DC Input

Maximum Module Input Power (Wp)	1600
Maximum Input Voltage (V)	60
MPPT Voltage Range / Rated Input Voltage (V)	16-60
Minimum Input Voltage / Start-up Voltage (V)	16
Numbers Of MPPT/ Number Of Input Strings Per MPPT	2/2
The Maximum Input Current Per MPPT Group (A)	16*2
Maximum Short-circuit Current Per MPPT Group	25*2

Battery Input

Rated Battery Energy (kWh)	2.56
Rated Battery Capacity (Ah)	50
Voltage (V)	51.2
Charging Power (W)	1500
Discharge Power (W)	1500
Core Type	LiFePo4

AC Grid Output

Rated AC Voltage (V)	220/230/240
AC Voltage Range (V)	154-276
Rated AC Grid Frequency (Hz)	50/60
AC Grid Frequency Range (Hz)	45-55/55-65
Rated Apparent Power (VA)	800
Maximum Apparent Power (VA)	800
Rated AC Grid Output Current A (@230V)	3.5
Maximum AC Grid Output Current A (@230V)	3.5
Maximum Total Current Harmonic Distortion THDi(@Rated Power)	<3%
Rated DC Voltage (V)	220/230/240
Rated DC Grid Frequency (Hz)	50/60
Maximum DC Input Power (W)	1500

Common Parameters

Power Factor / Adjustable Range	1/0.8 ahead0.8 behind
Topology	Isolated
Dimensions (Width/Height/Depth) (mm)	To Be Determined
Weight (kg)	Hybrid: 10kg/BAT: 25kg
Working Temperature Range	Charging: 0°C to 55°C Discharging: -20°C to 55°C
Cooling Method	Natural Cooling
Protection Level	IP65
Maximum Working Altitude (m)	3000
Lifespan and Warranty	6000 Cycles(@25°C, 0.5C/0.5C, 70% EOL &10 years)

EPS Output

AC Output	max 1500W
USB-A Fast Charge	max.18W
USB-C	max.100W

Functions

User Interface	APP
Communication Interface	Wifi

Common Parameters

Power Grid	IEC/EN 62109-1, IEC/EN 62109-2 IEC/EN 62619 IEC/EN 63056 VDE2510-50 IEC/EN 61000-6-1/-2/-3/-4, EN62920 ETSI EN 301 489-1 ETSI EN 301 489-17 ETSI EN 300 328 IEC 61000-4-16/18/29(Italy) VDE 4105:2018(Germany) CEI 0-21(Italy)
Safety Regulations	PTPIREE,2021-04;NC RFG;PSE(Poland)
EMC	2011/65/EU
Battery	UN 38.3