



ENERGY LINKS ALL
MIDEA
PRODUCTCATALOG



About Midea

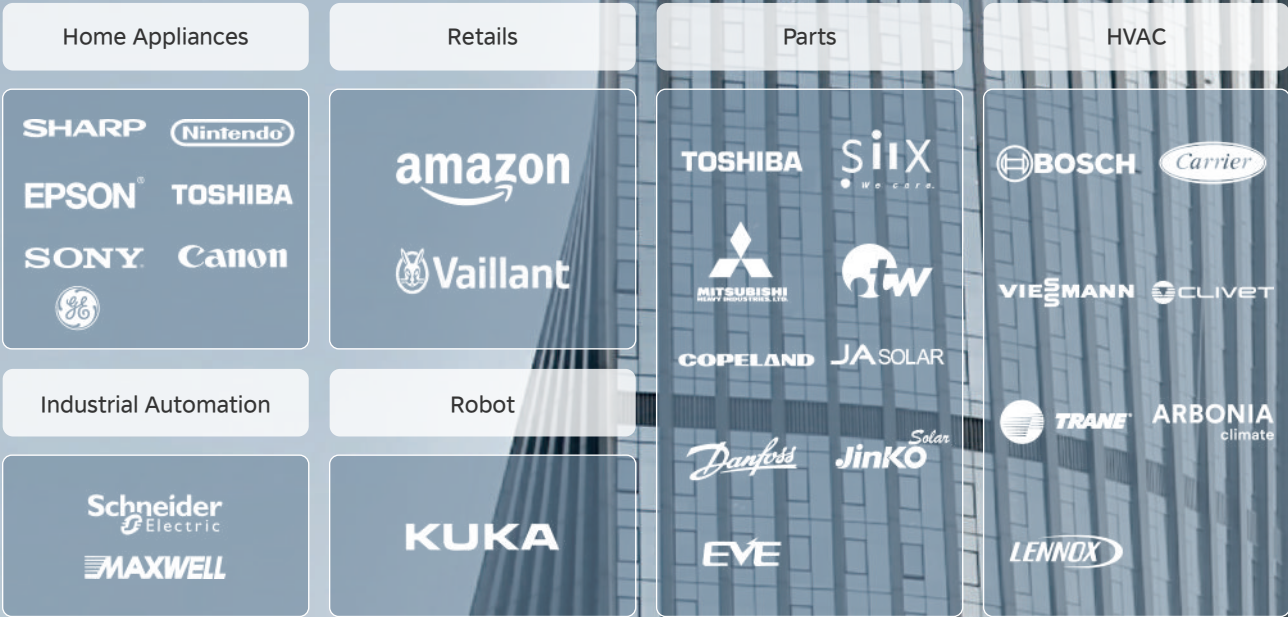
Founded in 1968
"Bring Great Innovations To Life"

Midea is a global technology group covering five business segments, including smart home, building technologies, industrial technology, robotics and automation, healthcare, as well as smart logistics. With an R&D investment of nearly 60 billion RMB over the past five years, Midea offers brands like Little Swan, COLMO, KUKA and more. Serving over 500 million users annually, Midea operates 400+ subsidiaries, 38 R&D centres and 44 production bases across 200+ countries and regions.

Corporate Snapshot



Global Impact



About Midea

Founded in 2003
"Energy Links All"

Midea Hiconics, a key energy business within Midea Group, specializes in residential energy storage systems, industrial drives and photovoltaic (PV) solutions. With over 20 years of expertise in power electronics and the backing of Midea's global innovation, we seamlessly integrate energy, appliances, and intelligent control to create smarter, more resilient homes.

Guided by Midea's vision that energy links all, we see energy not just as power—it's what links every device, every home, and every future together.

Main Business



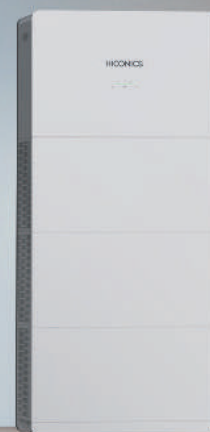
R&D Capability



Service



POWERINFI SERIES G2 ALL-IN-ONE RESS SOLUTION



3-8kW / 5-40kWh

5-15kW / 5-40kWh

Single-Phase

Three-Phase



Powerful

- 20A PV input, compatible with all residential modules
- 3 MPPTs for flexible arrays
- 200% DC/AC ratio for more power
- 200% EPS peak output in 10s



Smart

- 10ms on/off grid transition
- Smart fault detection, maximum output
- Supports TOU, VPP
- Unbalanced three-phase output



Flexible

- Seamless integration with Midea heat pumps
- DC-DC supports mixed batteries
- Up to 6 inverters in parallel
- 15-min install, 10-min OTA upgrade



Reliable

- 8-level battery protection
- Meets global safety standards
- Module AFCI, IP66 rated
- Insulation & leakage protection

POWERX1 SERIES HYBRID INVERTER

3~6kW / 5~20kWh

20~30kW / 20~120 kWh

Single-Phase

Three-Phase

Powerful

- 18A PV input — for high-power modules
- 200% DC/AC ratio — max out your roof
- 200% EPS peak output — power through anything
- Supports dual battery stacks — bigger backup

Flexible

- AC coupling & diesel gen-ready
- Midea heat pump integration
- Up to 6 inverters in parallel
- Wide battery voltage range: 120V-800V
- Compatible with self-developed & 3rd-party batteries

Smart

- 10ms on/off-grid transition
- TOU, VPP, peak shaving, dynamic control
- 100% three-phase unbalanced output
- Smart Home App monitoring



Model	MH-HYIV3.0 -SL-EU	MH-HYIV3.6 -SL-EU	MH-HYIV4.0 -SL-EU	MH-HYIV4.6 -SL-EU	MH-HYIV5.0 -SL-EU	MH-HYIV6.0 -SL-EU	MH-HYIV5.0 -SL-BE
PV Input							
Max. input power [W]	4800	5800	6400	7400	8000	9600	8000
Max. input voltage [V]				500			
Rated input voltage [V]				370			
MPPT voltage range [V]				125-425			
Startup voltage [V]				125			
Max. input current per MPPT [A]				18.0/18.0			
Max. short circuit current per MPPT [A]				27.0/27.0			
Number of MPPTs / Number of PV strings per MPPT				2 / 1+1			
Battery data							
Battery type	Li-Ion / Lead-acid						
Max. charge/discharge power [W]	3000/3000	3600/3600	4000/4000	4600/4600	5000/5000	6000/6000	5000/5000
Battery voltage range [V]	40-60						
Max. charge/discharge current [A]	70	90	100	110	120	135	120
AC Grid Side (On-grid)							
Rated output power [W]	3000	3600	4000	4600	5000	6000	5000
Max. output apparent power [VA]	3300	4000	4400	5000	5500	6600	5000
Max. input apparent power from grid [VA]	6000	7200	8000	9200	10000	10000	10000
Rated grid voltage [V]	220 / 230						
Rated grid frequency [Hz]	50 / 60						
Rated output current [A]	13.6/13.0	16.0/16.0	18.2/17.4	20.9/20.0	22.7/21.7	27.3/26.1	22.7/21.7
Max. output current [A]	15.0/14.4	16.0/16.0	20.0/19.1	22.7/21.7	25.0/24.0	30.0/28.7	22.7/21.7
Max. input current from grid [A]	27.3	32.7	36.4	42	43	43	43
Power factor	~1 (Adjustable from 0.8 leading to 0.8 lagging)						
I.THD [%]	<3@Rated power						
Backup port							
Rated power [W]	3000	3600	4000	4600	5000	6000	5000
Max. output apparent power [VA]	3300	4000	4400	5000	5500	6600	5000
Rated output voltage [V]	220/230						
Rated output frequency [Hz]	50/60						
Rated output current [A]	13.6/13.0	16.4/15.7	18.2/17.4	20.9/20.0	22.7/21.7	27.3/26.1	22.7/21.7
Max. output current [A]	15.0/14.4	18.2/17.4	20.0/19.1	22.7/21.7	25.0/24.0	30.0/28.7	22.7/21.7
Max. output peak power [W] / durement [s]	6000 (<10S)	7200 (<10S)	8000 (<10S)	9200 (<10S)	10000 (<10S)	10000 (<10S)	10000 (<10S)
Switching from grid connected mode to standalone mode [ms]	<10						
Output V. THD [%]	<3@Linear Load						
Efficiency							
Max.efficiency [%]	96.9	96.9	96.9	97.3	97.3	97.3	97.3
Euro efficiency [%]	96.0	96.0	96.0	96.2	96.2	96.2	96.2
Protection							
Safety protection feature	LVRT, HVRT, Anti-islanding protection, AC output overvoltage / undervoltage protection, AC short circuit protection, AC overcurrent protection, Leakage current protection, Type II DC / AC surge protection, PV insulation resistance detection, PV reverse polarity protection, PV input overvoltage protection, Earthing fault protection, DC arcing detection and protection (Optional)						
System data							
Dimension (W*H*D) [mm]	228*470*340						
Weight [kg]	19KG						
Topology	Non-Isolated						
Operating temperature range [°C]	-20~+60(derating above +45)						
Relative humidity	0-100%(No condensing)						
Max. operation altitude [m]	2000						
Ingress protection	IP66						
Cooling method	Natural Convection						
User interface	LED, APP, LCD						
Communication with BMS	CAN						
Typical noise emission [dB]	< 35						
Standard warranty [years]	5						
Certification	IEC/EN 62109-1&2, IEC 61000-6-1, IEC 61000-6-3, IEC 60529,IEC 60068, IEC 61683, G98/G99/G100,CEI-021, IEC 63027						



Model	MH-HYIV15.0-TH-S4	MH-HYIV20.0-TH	MH-HYIV25.0-TH	MH-HYIV29.9-TH	MH-HYIV30.0-TH
PV Input					
Max. input power [W]	30000	40000	50000	59800	60000
Max. input voltage [V]	1000				
Rated input voltage [V]	650				
MPPT voltage range [V]	160-850				
Startup voltage [V]	180				
Max. input current per MPPT [A]	36/36	36/36	36/36/36	36/36/36	36/36/36
Max. short circuit current per MPPT [A]	45/45	45/45	45/45/45	45/45/45	45/45/45
Number of MPPTs / Number of PV strings per MPPT	2 /2+2	2 /2+2	3/2+2+2	3/2+2+2	3/2+2+2
Battery data					
Battery type	Lithium-ion				
Max. charge / discharge power [W]	16500	22000	27500	30000	33000
Battery voltage range [V]	160-750	160-750	160-750	160-750	160-750
Max. charge / Discharge current [A]	50	50	50+50	50+50	50+50
Number of Battery Input	1	1	2	2	2
AC Grid Side (On-grid)					
Rated output power [W]	15000	20000	25000	29900	30000
Max. output apparent power [VA]	16500	22000	27500	29900	33000
Max. input apparent power from grid [VA]	30000	40000	50000	60000	60000
Rated grid voltage [V]	3L/N/PE, 220 / 380, 230 / 400				
Rated grid frequency [Hz]	50 / 60				
Rated output current [A]	22.8/21.8	30.4/29	37.9/36.3	45.4/43.4	45.4/43.5
Max. output current [A]	25/24	33.4/31.9	41.7/39.9	45.4/43.4	50/47.9
Max. input current from grid [A]	45.5/43.3	60.6/57.7	76.0/72.2	90/86.6	90/86.6
Power factor	~1 (Adjustable from 0.8 leading to 0.8 lagging)				
I.THD [%]	< 3@Rated power				
Backup port					
Rated power [W]	15000	20000	25000	29900	30000
Max. output apparent power [VA]	16500	22000	27500	29900	33000
Rated output voltage [V]	3L/N/PE, 220 / 380, 230 / 400				
Rated output frequency [Hz]	50 / 60				
Rated output current [A]	22.8/21.8	30.4/29	37.9/36.3	45.4/43.4	45.4/43.5
Max. output current [A]	25/24	33.4/31.9	41.7/39.9	45.4/43.4	50/47.9
Max. output peak power [W] / durement [s]	30000 (<10S)	40000 (<10S)	40000 (<10S)	48000 (<10S)	48000 (<10S)
Switching from grid connected mode to standalone mode [ms]	< 10				
Output V. THD [%]	<3@Linear Load				
Efficiency					
Max.efficiency [%]	97.80%				
Euro efficiency [%]	97.20%				
Protection					
Safety protection feature	Anti-Islanding protection, DC reverse polarity protection, Insulation monitoring, Residual current monitoring, Type II DC / AC surge protection, DC arcing detection and protection (Optional), Three phase unbalanced output				
System data					
Dimension (W*H*D) [mm]	540*790*230				
Weight [kg]	48KG				
Topology	Non-Isolated				
Operating temperature range [°C]	-25~+60 (Derating above + 45)				
Relative humidity	0-100%(Non-condensing)				
Max. operation altitude [m]	3000m (derating above 2000m)				
Ingress protection	IP66				
Cooling method	Intelligent fan-cooling				
User interface	LED, APP, LCD(Optional)				
Communication with BMS	CAN				
Typical noise emission [dB]	< 55	< 55	< 55	< 60	< 60
Standard warranty [years]	5				
Certification	IEC/EN 62109-1/2, IEC/EN 61000-6-1/2/3/4, IEC/EN 61000-4-16/18/29, IEC 63027, VDE-AR-N 4105, CEI 0-21, PTPIREE:2021-04; NC RFG; PSE, EN50549-1/-10				

HOME STACKABLE LOW VOLTAGE BATTERY



Safe & Long-Lasting

- LiFePO₄ cells with IP65 protection
- Eco-friendly, non-toxic materials

Modular & Scalable

- Stackable design, wall or floor mount
- Expandable up to 4 units (max. 20.4 kWh)
- Smart BMS with remote monitoring and auto networking

Quick & Easy Installation

- No internal wiring, plug-and-play design
- Fast setup by a single person

Reliable Performance

- 100A peak discharge
- Operates from -20°C to 55°C with built-in heating

Item	Specifications / Pack	Specifications / Junction Box	Specifications / Battery System			
Model	MH-BAT5.0-LST	MH-MB60/150-L	MH-BATS5.0-LST	MH-BATS10.0-LST	MH-BATS15.0-LST	MH-BATS20.0-LST
Number of stacked battery packs	/	/	1	2	3	4
Nominal Energy [kWh]	5.1	/	5.1	10.2	15.3	20.4
Usable Energy [kWh]	4.59	/	4.59	9.18	13.77	18.36
Max. charge power [kW]	3.072	3.072	3.072	6.144	6.144	6.144
Max. discharge power [kW]	3.072	3.072	3.072	6.144	6.144	6.144
Sizes (W*H*D) [mm]	635*320*170	635*120*170	635*500*170	635*820*170	635*1140*170	635*1460*170
Weight[kg]	≤50	≤20	≤70	≤120	≤170	≤220
Battery Chemistry	LFP	/	LFP			
Max. continuous charge current [A(@25°C)]	60	120	60	120	120	120
Max. continuous discharge current [A(@25°C)]	60	120	60	120	120	120
Peak charge current [A(@25°C, 10s)]	100	200	100	200	200	200
Peak discharge current [A(@25°C, 10s)]	100	200	100	200	200	200
Rated Voltag [V]	51.2	51.2	51.2			
Voltage rang [V]	41.6-58.4	41.6-58.4	41.6-58.4			
Cell room Temperature Cycle Life *	6000 Cycles 0.5C/0.5C @70%SOH	/	6000 Cycles 0.5C / 0.5C @70%SOH			
Warranty Period *	10 years	10 years	10 years			
Operating ambient temperature	Charge: 0 ~ +55°C / Discharge: -20°C~+55°C	-20~55°C	Charge: 0 ~ +55°C / Discharge: -20°C ~ +55°C			
Operating ambient humidity	0~95%RH	0~95%RH	0~95%RH			
Altitude	≤3000m	≤3000m	≤3000m			
Communication Port	CAN	CAN	CAN			
Regulation compliance	IEC 62619, IEC 63056, IEC 62040-1, IEC 60730, UN 38.3/MSDS, (EU) 2023/1542	IEC 62619, IEC 63056, IEC 62040-1, IEC 60730, UN 38.3/MSDS, (EU) 2023/1542	IEC 62619, IEC 63056, IEC 62040-1, IEC 60730, UN 38.3/MSDS, (EU) 2023/1542			
EMC standard/EMC	IEC61000-6-1/2/3/4	IEC61000-6-1/2/3/4	IEC61000-6-1/2/3/4			
Ingress Protection rate	IP65	IP65	IP65			
Mounting	Floor-Mounted / Wall-Mounted	Floor-Mounted / Wall-Mounted	Floor-Mounted / Wall-Mounted			

* The warranty is due whichever reached first of warranty period or Cell room Temperature Cycle Life.

HOME RACK-MOUNT LOW VOLTAGE BATTERY



Safe & Long-Lasting



- LiFePO₄ cells for high safety and long cycle life
- Eco-friendly, non-toxic materials

Modular & Scalable



- Expandable up to 4 units (max. 20.4 kWh)
- Smart BMS with remote monitoring and auto networking

Reliable Performance



- 100A peak discharge
- Operates from -20°C to 55°C

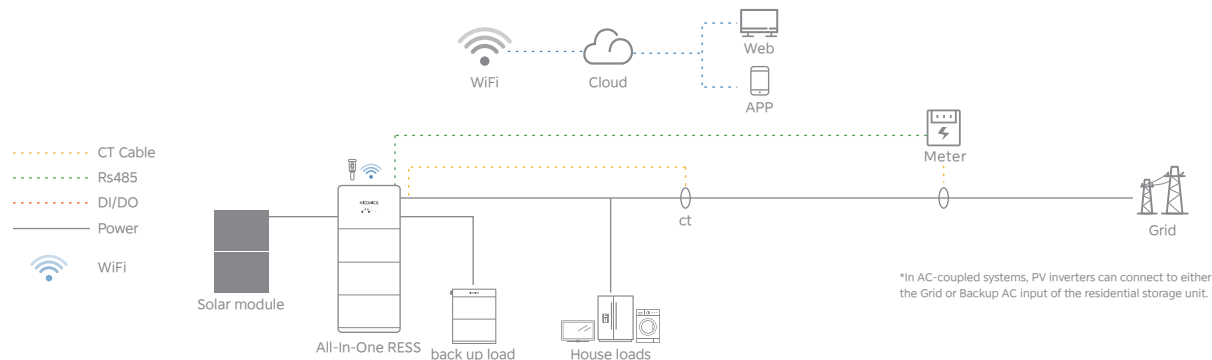
Item	Specifications / Pack	Specifications / Battery System			
Model	MH-BAT5.0-LRA	MH-BATS5.0-LRA	MH-BATS10.0-LRA	MH-BATS15.0-LRA	MH-BATS20.0-LRA
Number of stacked battery packs	/	1	2	3	4
Nominal Energy [kWh]	5.1	5.1	10.2	15.3	20.4
Usable Energy [kWh]	4.59	4.59	9.18	13.77	18.36
Max. charge power [kW]	3.072	3.072	6.144	6.144	6.144
Max. discharge power [kW]	3.072	3.072	6.144	6.144	6.144
Sizes (W*H*D) [mm]	440*133*570	/	/	/	/
Weight[kg]	≤50	/	/	/	/
Battery Chemistry	LFP	LFP			
Max. continuous charge current [A(@25°C)]	60	60	120	120	120
Max. continuous discharge current [A(@25°C)]	60	60	120	120	120
Peak charge current [A(@25°C,10s)]	100	100	200	200	200
Peak discharge current [A(@25°C,10s)]	100	100	200	200	200
Rated Voltag [V]	51.2	51.2			
Voltage rang [V]	41.6-58.4	41.6-58.4			
Cell room Temperature Cycle Life *	6000 Cycles 0.5C/0.5C @70%SOH	6000 Cycles 0.5C / 0.5C @70%SOH			
Warranty Period *	5 years	5 years			
Operating ambient temperature	Charge: 0 ~ +55°C / Discharge: -20°C~+55°C	Charge: 0 ~ +55°C / Discharge: -20°C ~ +55°C			
Altitude	≤3000m	≤3000m			
Communication Port	CAN	CAN			
Regulation compliance	IEC 62619, IEC 60730, UN 38.3/MSDS	IEC 62619, IEC 60730, UN 38.3/MSDS			
EMC standard/EMC	IEC61000-6-1/2/3/4	IEC61000-6-1/2/3/4			
Ingress Protection rate	IP20	IP20			
Mounting	Floor-Mounted	Floor-Mounted			
* The warranty is due whichever reached first of warranty period or Cell room Temperature Cycle Life.					

Midea: Where Clean Energy Meets smart Living

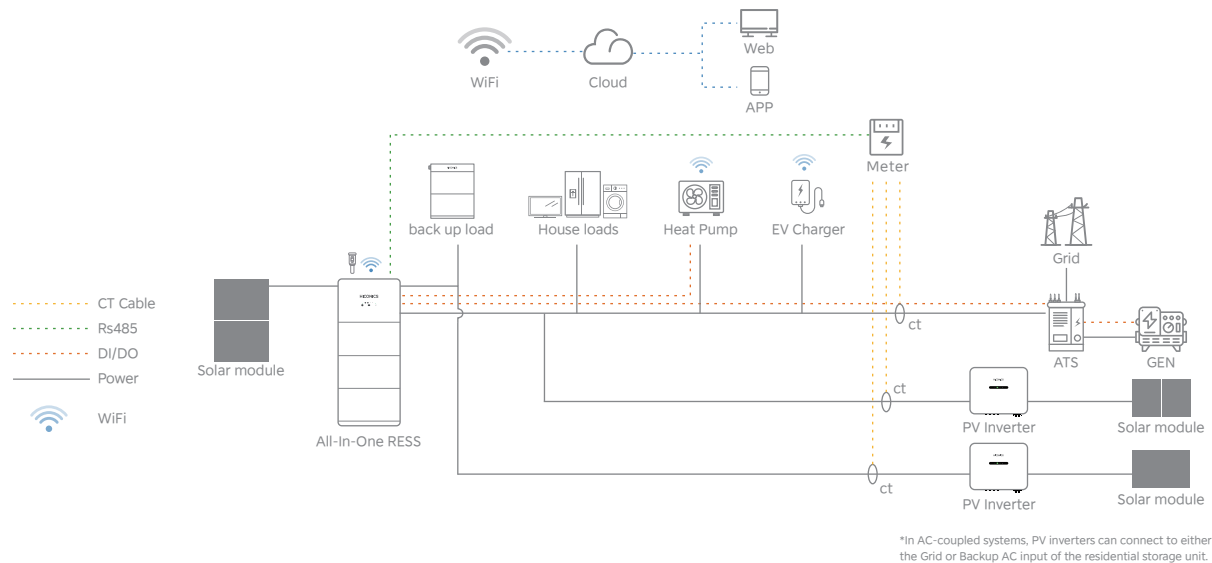
Integrated & Scalable Architecture

Supports parallel operation of up to 6 units, hybrid integration with diesel generators and AC-coupled PV systems, and flexible system expansion—enabling customizable residential energy solutions.

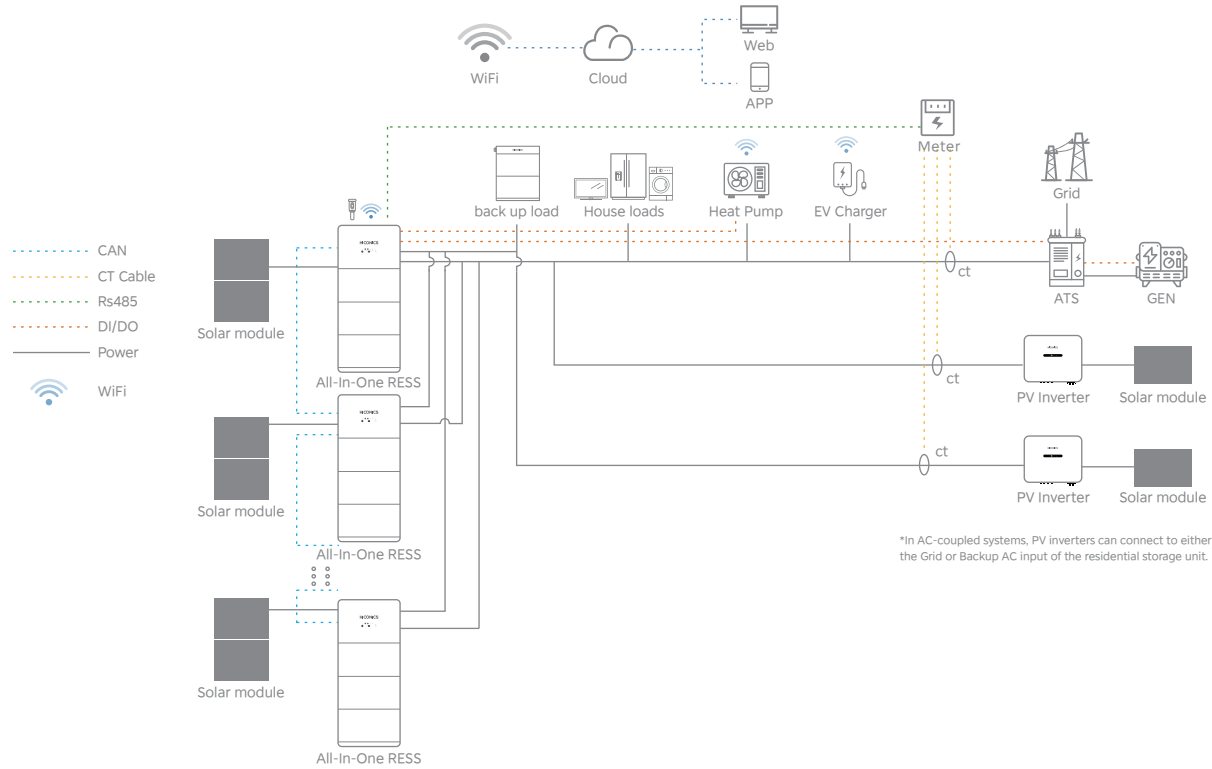
Residential Energy Eco-Living System



Residential Solar & Storage System



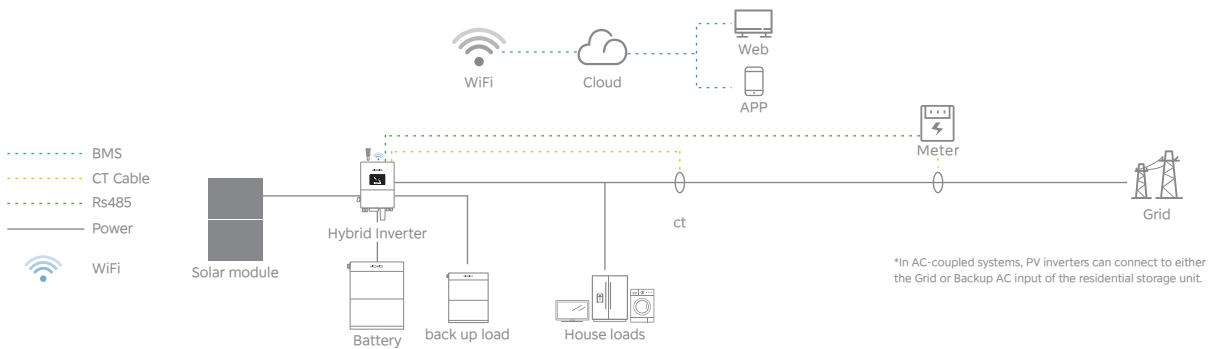
Residential Energy Eco-Living System (ESS Parallel Operation)



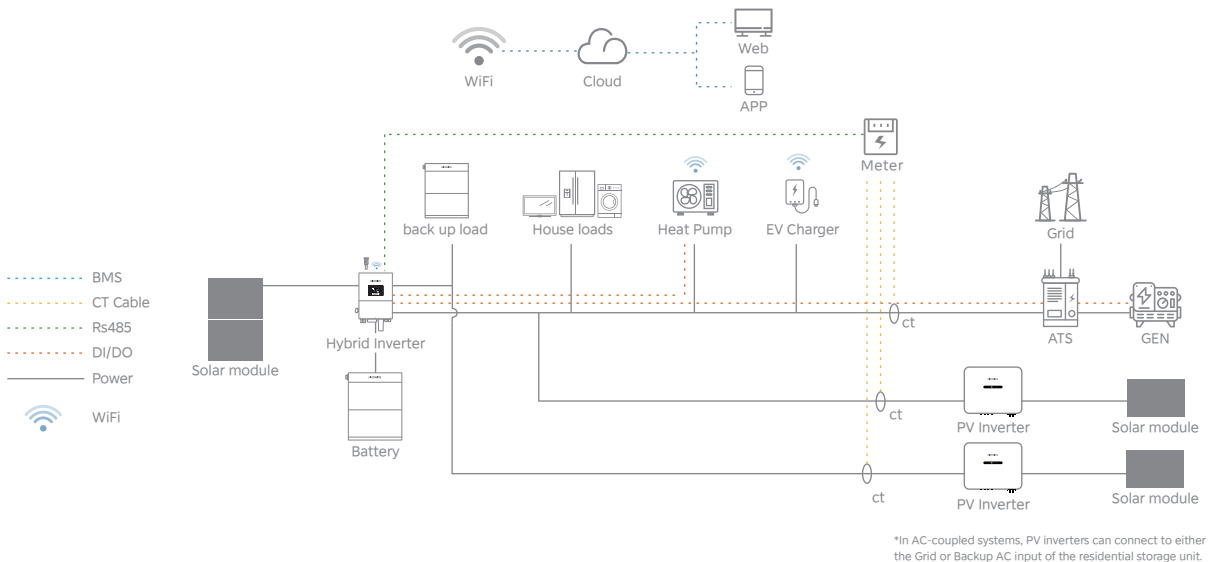
Intelligent Energy Orchestration

Optimizes household loads in real time — including heat pumps and EV charging — based on solar generation, battery state, dynamic tariffs, and usage patterns, maximizing self-consumption and reducing electricity costs.

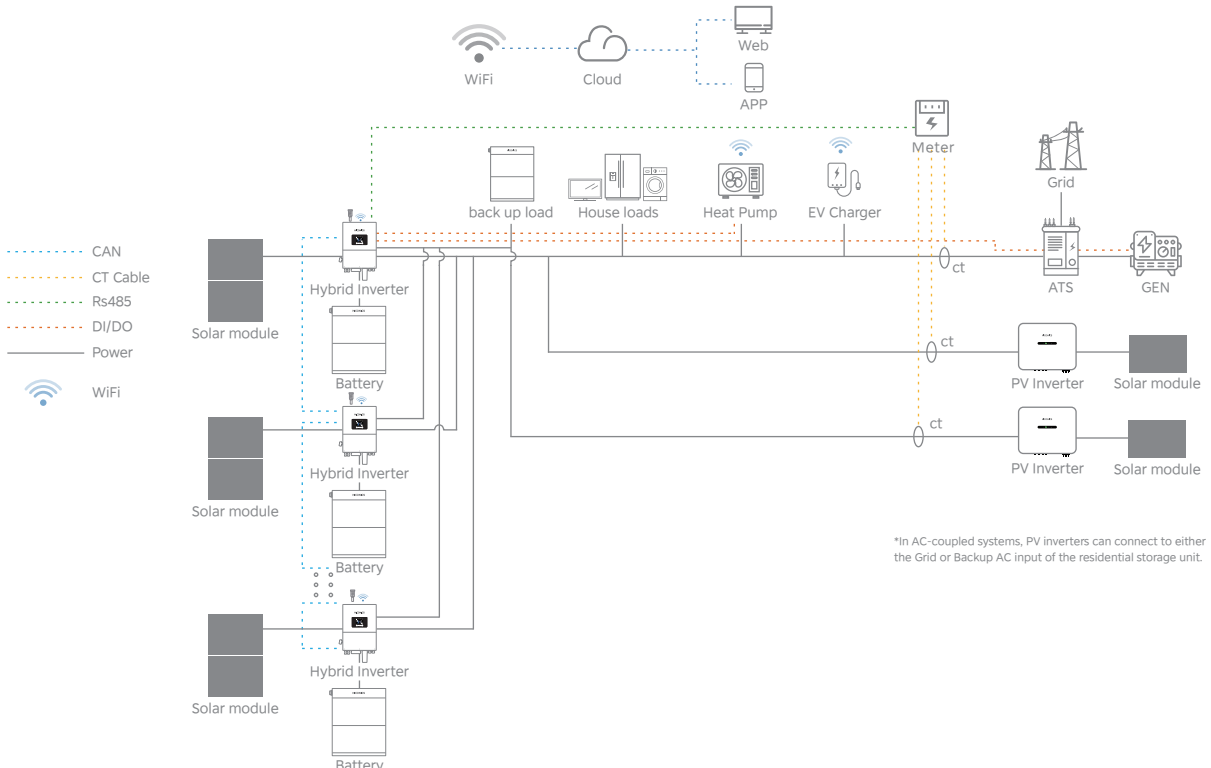
Residential Energy Eco-Living System



Residential Solar & Storage System



Residential Energy Eco-Living System (ESS Parallel Operation)



HIENERGY SERIES ALL-IN-ONE RESS

3.68~6kW / 5~30kWh
8~15kW / 5~40kWh

Single-Phase
Three-Phase

ULTIMATE SAFETY

- 5 Level cell Protection
- Advanced Thermal Management
- System Function Safety*
- Cyber Security for Operation & Data*

RESIDENTIAL INTEGRATION

- IP65 Protection & -20~55 degree operation range
- Home Appliance Power Integration
- Super Slim, Space Saving
- Aesthetic & Harmonious Design
- Silent

EASY INSTALLATION

- Stackable Modular Design
- Quick Plug, No Extra Wiring
- Installation Time <20 min
- 5 min Fast Commissioning

SMART CONTROL

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



Model	HEC2-S3.68Hr2		HEC2-S3.8Hr2		HEC2-S5.0Hr2		HEC2-S6.0Hr2	
PV Input								
Max.PV array power[kW]					9 (4.5/4.5)			
Max.DC voltage[V]					600* ³			
Nominal DC operating voltage[V]					360			
MPPT voltage range[V]					100-540			
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			
Max.charge/discharge current[A]*2					25/25			
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	
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							
Nominal grid frequency[Hz]	50							
Max. output AC current to 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)	26.1A a.c* ⁶		26.1A a.c* ⁶		26.1A a.c* ⁶		26.1A a.c	
Power factor	~1 (Adjustable from 0.8 leading to 0.8 lagging)							
I.THD[%]	<3@Rated power				<5@Rated power			
EPS Side								
Nominal power[W]	3680		3800		5000		6000	
Max. Output Apparent Power without 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 (4~6mm2)							
AC Connector	Quick Plug							
Standard warranty[years]	10							
"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.								



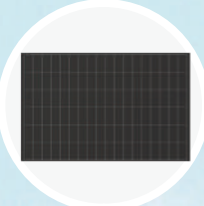
Model	HEC2-T8.0Hr2-Eu	HEC2-T10.0Hr2-Eu	HEC2-T12.0Hr2-Eu	HEC2-T15.0Hr2-Eu
PV Input				
Max. PV array power[kW]	13.5 (4.25+4.25/5.0)	16.5(5.25+5.25/6.0)	18(5.5+5.5/7.0)	22.5(7.0+7.0/8.5)
Max. open circuit voltage[V]	1000			
Max. input current(A/B)[A]	26/16			
Max. short circuit current(A/B)[A]	30/20			
Mppt voltage range[V]	180-950			
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			
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 Max. efficiency[%]	99.9			
Euro efficiency[%]	96.1			
Max efficiency[%]	97.7			
Battery charge/discharge efficiency[%]	98.5(PV-BAT), 97(BAT-AC)			
ENVIRONMENT LIMIT				
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 (mm²)	4-6			
AC Connector(mm²)	6-10			
Standard warranty[years]	10			

POWERDECK SERIES BALCONY PV SYSTEM



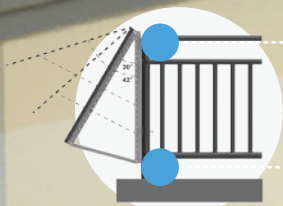
Flex Module

- 4 Pieces of Modules
- 200-210W Per Module
- 1083 X 1104 X 2.5 mm Per Module
- 4.5Kg Per Module



Solid Module

- 2 Pieces of Modules
- 430-440W Per Module
- 1762 X 1134 X 30 mm Per Module
- 21Kg Per Module



More Flexible

Adjustable Angle: 30° to 42°

More Durable

Anodized 6005-T5 Aluminum Alloy



Up to 880VA

• Flexible Reactive Power Control

2 MPPTs in One

• Max Yield Gain

IP67

• Highest Level Ingress Protection

Wi-Fi Mesh

• Built in Wi-Fi Communication



I Microinverter Model		MH-MCIV0.8-SN
Microinverter	Max Output Power [W]	800
	MPPT Voltage Range [Vdc]	32-45
	Number of MPPT	2
	Max Number of PV String per MPPT	1
	Max DC Input Current [A]	14/14
	Max Short Circuit Current [A]	25/25
	Nominal Output Power [W]	800
	Max Output Current [A]	3.5
	Nominal Output Current [A]	3.5
	AC Fault Short Circuit Current [A]	20
	Output Overcurrent Protection Current [A]	10
	Rated Grid Voltage	~230V, L/N/PE
	Grid Voltage Range [Vdc]	187-253
	Nominal Grid Frequency [Hz]	50/60
	Max MPPT Efficiency [%]	99.8
	Enclosure Enviromental Rating	IP67
	Anti-Islanding Protection	Yes
	AC Overvoltage/Undervoltage Protection	Yes
	AC Overcurrent/Short Circuit Protection	Yes
	Surge Protection	Yes
	PV Reverse Polarity Protection	Yes
	PV Insulation Resistance Detection	Yes
	Operating Temperature [C°]	-40 ~ +65
	Storage Temperature [C°]	-40 ~ +70
	Max Operation Altitude [m]	2000
	Relative Humidity	0% ~ 100%
	Cooling Method	Natural Convection
	PV Connector	MC4
	Communication	Wi-Fi
	Dimension (W*H*D) [mm]	246*235.5*40.5
	Weight [Kg]	3.6
	Warranty	12 Years
	Safety, EMC & Grid Compliances	IEC 62109-1/-2;IEC 62109-3;EN 61000-1/-2/-3/-4;CE-RED;EN 50549-1/-10; VDE-AR-N 4105;2016/631 EU (NC RfG)、PSE 2018-12-18;
Module	Module Model	54HL4R-B
	Nominal Module Output [W]	440
	Cell Type	N-Type Mono-Crystalline
	Number of Cell	108
	Module Dimensions [L*W*H]	1762 × 1134 × 30 mm
	Module Weight [Kg]	21
	Frame	Anodized Aluminum Alloy
	Operating Temperature [C°]	-40 ~ +70
	Power Tolerance	0 ~ ±3%
	Warranty	25 Years
Efficiency	Mounting Bracket	Included
	AC Cable Length [m]	1*5
	AC Cable Cordial Area [mm2]	1
	PV Cable Extention Length [m]	2*1
	PVCable Cordial Area [mm2]	4



I Microinverter Model		MH-MCIV0.8-SN
Microinverter	Max Output Power [W]	800
	MPPT Voltage Range [Vdc]	32-45
	Number of MPPT	2
	Max Number of PV String per MPPT	1
	Max DC Input Current [A]	14/14
	Max Short Circuit Current [A]	25/25
	Nominal Output Power [W]	800
	Max Output Current [A]	3.5
	Nominal Output Current [A]	3.5
	AC Fault Short Circuit Current [A]	20
	Output Overcurrent Protection Current [A]	10
	Rated Grid Voltage	~230V, L/N/PE
	Grid Voltage Range [Vdc]	187-253
	Nominal Grid Frequency [Hz]	50/60
	Max MPPT Efficiency [%]	99.8
	Enclosure Enviromental Rating	IP67
	Anti-Islanding Protection	Yes
	AC Overvoltage/Undervoltage Protection	Yes
	AC Overcurrent/Short Circuit Protection	Yes
	Surge Protection	Yes
	PV Reverse Polarity Protection	Yes
	PV Insulation Resistance Detection	Yes
	Operating Temperature [C°]	-40 ~ +65
	Storage Temperature [C°]	-40 ~ +70
	Max Operation Altitude [m]	2000
	Relative Humidity	0% ~ 100%
	Cooling Method	Natural Convection
	PV Connector	MC4
	Communication	Wi-Fi
	Dimension (W*H*D) [mm]	246*235.5*40.5
	Weight [Kg]	3.6
	Warranty	12 Years
	Safety, EMC & Grid Compliances	IEC 62109-1/-2;IEC 62109-3;EN 61000-1/-2/-3/-4;CE-RED;EN 50549-1/-10; VDE-AR-N 4105;2016/631 EU (NC RfG)、PSE 2018-12-18;
Module	Module Model	P 210
	Nominal Module Output [W]	210
	Cell Type	Mono Crystalline Half Cell
	Number of Cell	72
	Module Dimensions [L*W*H]	1083 × 1104 × 2.5 mm
	Module Weight [Kg]	4.5
	Frame	Framless
	Operating Temperature [C°]	-40 ~ +85
	Power Tolerance	0 ~ ±3%
	Warranty	12 Years
Efficiency	AC Cable Length [m]	1*5
	AC Cable Cordial Area [mm2]	1
	PV Cable Extention Length [m]	2*1
	PVCable Cordial Area [mm2]	4
	Metal Tie	48

POWERDECK SERIES BALCONY PV SYSTEM

Full GaN Microinverter

-  Full GaN architecture delivering up to 97.6% efficiency
-  High power density of 650W/L — compact and lightweight
-  MPPT voltage as low as 16V for wide module compatibility
-  Advanced resonant control algorithm supporting off-grid and reverse operation
-  PLC communication with no antenna required for fast deployment
-  25-year extended warranty for worry-free operation



Digital driven energy, HiEco links all

A Monitoring System for O&M
of Your Energy Storage Plant



HiEco



Flexible & User-Friendly

Lower costs, smarter management.
Your own dashboard, clear and simple.
Make the most of every ray of green energy.

Simple & Efficient

Deploy fast, start easy.
Spot and solve faults in real time.
Updates on the go, no downtime.

Safe & Reliable

Secure access for every user.
Data you can trust, always protected.
Weather alerts keep your home powered, day and night.

