



ENERGY LINKS ALL
**MIDEA
HICONICS**
PRODUCT CATALOG

📍 Midea-Hiconics New Energy, No.3, Boxing Road, Daxing District, Beijing, China
🌐 www.hiconics-global.com
✉ solar_service@midea.com

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About Midea

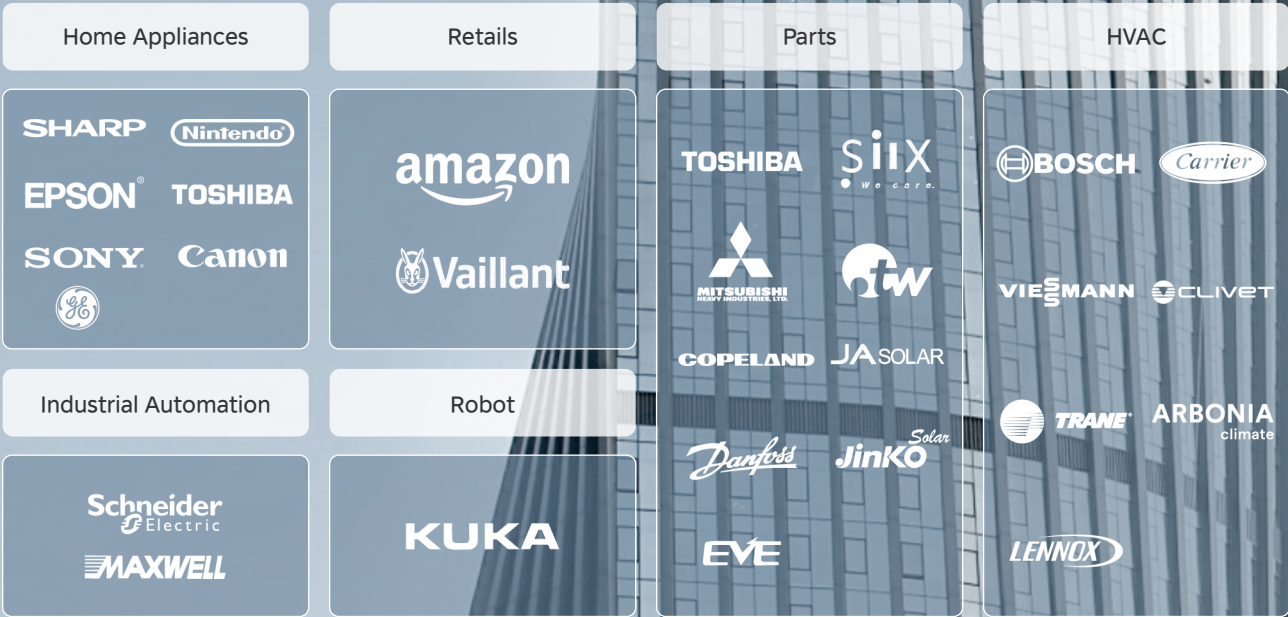
Founded in 1968
"Bring Great Innovations To Life"

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 Hiconics

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.

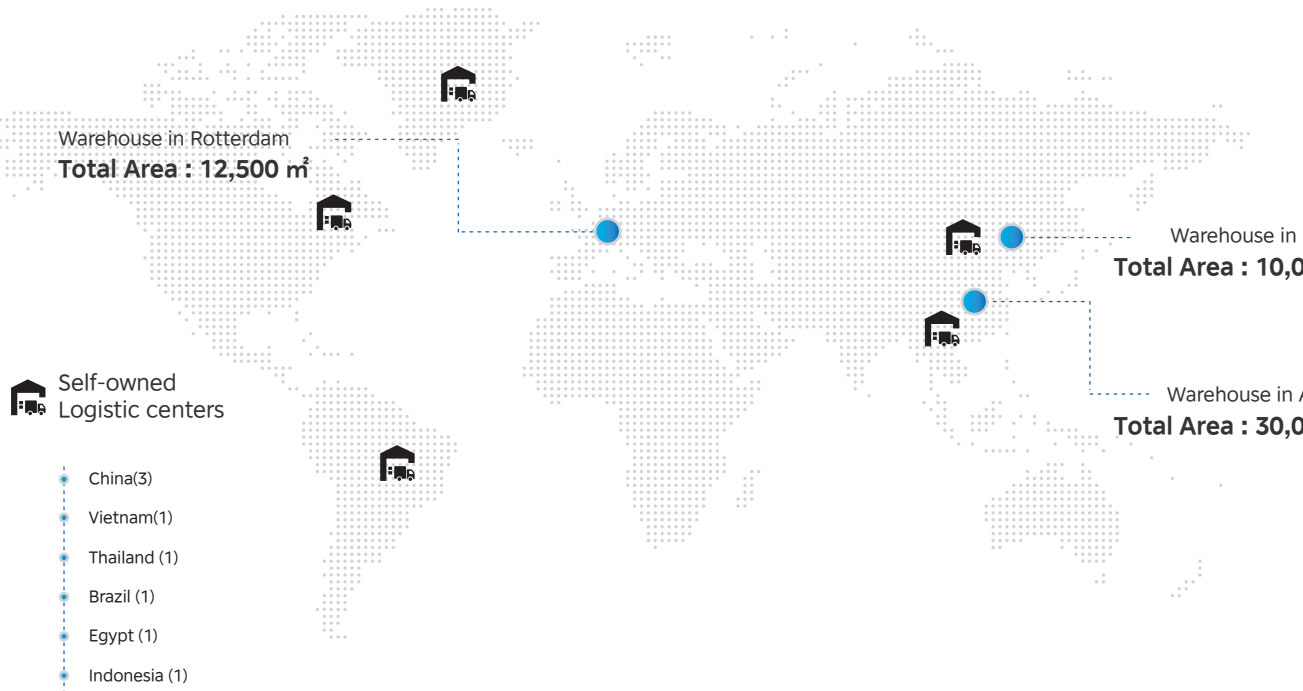
Main Business



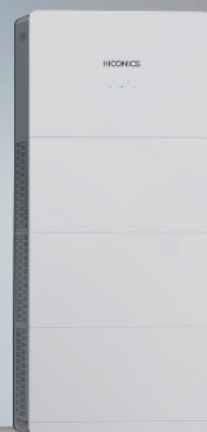
R&D Capability



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

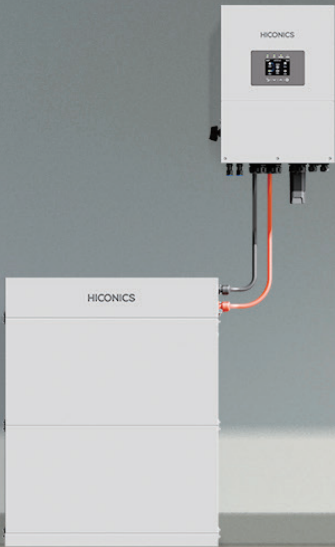
Reliable

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

Single Phase 3-8 KW									
Battery System Model	MH-BAT5.0-HPE	MH-BAT10.0-HPE	MH-BAT15.0-HPE	MH-BAT20.0-HPE	MH-BAT25.0-HPE	MH-BAT30.0-HPE	MH-BAT35.0-HPE	MH-BAT40.0-HPE	
Component	MH-BAT5.0-HPE	MH-BAT5.0-HPE*2	MH-BAT5.0-HPE*3	MH-BAT5.0-HPE*4	MH-BAT5.0-HPE*3/2	MH-BAT5.0-HPE*3/3	MH-BAT5.0-HPE*4/3	MH-BAT5.0-HPE*4/4	
Sizes (W*H*T) [mm]	710*425*170	710*795*170	710*1165*170	710*1535*170	710*1220*170 / 710*795*170	710*1165*170 / 710*1220*170	710*1590*170 / 710*1165*170	710*1535*170 / 710*1590*170	
Weight[kg]	50	100	150	200	250	300	350	400	
Rated / Useable Capacity [kWh]	5.12 / 5	10.24 / 10	15.36 / 15	20.48 / 20	25.6 / 25	30.72 / 30	35.84 / 35	40.96 / 40	
Max. charge / discharge power [kW]	2.5@continuous, 3.5@15minutes	2.5*2@continuous, 3.5*2@15minutes	2.5*3@continuous, 3.5*3@15minutes	2.5*4@continuous, 3.5*4@15minutes	2.5*5@continuous, 3.5*5@15minutes	2.5*6@continuous, 3.5*6@15minutes	2.5*7@continuous, 3.5*7@15minutes	2.5*8@continuous, 3.5*8@15minutes	
Max. continuous charge / discharge current [A] (@35°C)	6.9	13.8	20.7	27.6	34.5	41.4	48.3	50	
Peak charge / discharge current [A] (@30°C,15min)	8.54	17.08	25.62	34.16	42.7	50	50	50	
Rated Voltag / Voltage rang [V]	410 / 362 ~ 464								
Operating ambient temperature	-20~50°C								
Operating ambient humidity	0~100% RH								
Cooling	Natural Convection								
Altitude	≤3000m								
Ingress Protection rate	IP66								
Mounting	Floor-Mounted / Wall-Mounted								
Cell type and Cell Room Temperature Cycle Life(25°C±2°C)	LFP, 6000 Cycles 0.5C/0.5C @70%SOH								
Standard warranty [years]	10 (The warranty is due whichever reached first of warranty period or Cell room Temperature Cycle Life)								
Certification	IEC62477-1, IEC62040-1, IEC62619, IEC 63056, ISO 13849, ISO 4892-4, UN38.3/MSDS, VDE-AR-N 2510-50, IEC61000-6-1/-2/-3/-4								
PCS Model	MH-HYIV3.0-SHE	MH-HYIV3.68-SHE	MH-HYIV3.8-SHE	MH-HYIV4.0-SHE	MH-HYIV4.6-SHE	MH-HYIV5.0-SHE	MH-HYIV6.0-SHE	MH-HYIV8.0-SHE	
PV Input									
Max. input power [W]	6000	7360	7600	8000	9200	10000	12000	12800	
Max. input voltage [V]	550								
Rated input voltage [V]	360								
MPPT voltage range [V]	80-500								
Startup voltage [V]	100								
Max. input current per MPPT [A]	20/20						20/20/20		
Max. short circuit current per MPPT [A]	25/25						25/25/25		
Number of MPPTs / PV strings per MPPT	2 / 1+1						3 / 1+1+1		
Battery data									
Battery voltage range [V]	320-480								
Max. charge / discharge current [A]*@330V	12.5/10.5	12.5/11.7	12.5/13.3	12.5/14.0	18.7/15.8	18.7/17.4	18.7/21.0	25/25	
AC Grid Side (On-grid)									
Rated output power [W]	3000	3680	3800	4000	4600	5000	6000	8000	
Max. output apparent power [VA]	3300	3680	4180	4400	5000	5500	6600	8000	
Max. input apparent power from grid [VA]	6000	7360	7600	8000	9200	10000	11500	11500	
Rated grid voltage [V] / frequency [Hz]	220/230 V, 50/60 Hz								
Max. output current [A]	15	16.8	19	20	22.8	25	30	36.4	
Max. input current from grid [A]	27.3	33.5	34.6	36.4	41.9	45.5	50	50	
Power factor	~1 (Adjustable from 0.8 leading to 0.8 lagging)								
I.TH.D [%]	<3@Rated power								
Backup port									
Rated power [W]	3000	3680	3800	4000	4600	5000	6000	8000	
Max. output apparent power [VA]	3300	3680	4180	4400	5000	5500	6600	8000	
Rated grid voltage [V] / frequency [Hz]	220/230 V, 50/60 Hz								
Max. output current [A]	15	16.8	19	20	22.8	25	30	36.4	
Max. output peak power [W] / durement [s]	6000, 10s	7360, 10s	7600, 10s	8000, 10s	9200, 10s	10000, 10s	12000, 10s	12000, 10s	
Switch time to backup mode [ms]	<10								
Efficiency									
Max. efficiency / Euro efficiency [%]	97.3 / 95.7	97.3 / 96.2	97.3 / 96.2	97.4 / 96.6	97.4 / 96.9	97.4 / 96.9	97.4 / 96.9	97.6 / 97.2	
Protection									
Safety protection feature	LVRT, HVRT, Anti-islanding protection, AC output overvoltage / undervoltage protection, AC short circuit protection, AC overcurrent protection, Leakage current protection, DC / AC surge protection, PV insulation resistance detection, PV reverse polarity protection, PV input overvoltage protection, Battery reverse polarity protection, Earthing fault protection, DC arcing detection and protection								
System data									
Dimension (W*H*D) [mm]	710*395*232								
Weight [kg]	27±3								
Topology	Non-Isolated								
Operating temperature range [°C]	-20~+60(derating at +45)								
Relative humidity	0 ~ 100%								
Max. operation altitude [m]	≤3000								
Ingress protection	IP66								
Cooling method	Natural Convection								
User interface	LED, APP								
Standard warranty [years]	10								
Certification	IEC 62109-1:2010, IEC 62109-2:2011, EN 62109-1:2010, EN 62109-2: 2011, IEC 61000-6-1,2,3,4, EN62920, IEC 61000-4-16/18/29, IEC 60529, IEC 60068, IEC61683, EN50530, CEI021,VDE4105, AS4777.2, AS60947.3, ISO 13849, IEC62443								

Three Phase 5-15KW								
Battery System Model	MH-BAT5.0 -HPE	MH-BAT10.0 -HPE	MH-BAT15.0 -HPE	MH-BAT20.0 -HPE	MH-BAT25.0 -HPE	MH-BAT30.0 -HPE	MH-BAT35.0 -HPE	MH-BAT40.0 -HPE
Component	MH-BAT5.0-HPE	MH-BAT5.0-HPE*2	MH-BAT5.0-HPE*3	MH-BAT5.0-HPE*4	MH-BAT5.0-HPE*3/2	MH-BAT5.0-HPE*3/3	MH-BAT5.0-HPE*4/3	MH-BAT5.0-HPE*4/4
Sizes (W*H*T) [mm]	710*425*170	710*795*170	710*1165*170	710*1535*170	710*1220*170 / 710*795*170	710*1165*170 / 710*1220*170	710*1590*170 / 710*1165*170	710*1535*170 / 710*1590*170
Weight[kg]	50	100	150	200	250	300	350	400
Rated / Useable Capacity [kWh]	5.12 / 5	10.24 / 10	15.36 / 15	20.48 / 20	25.6 / 25	30.72 / 30	35.84 / 35	40.96 / 40
Max. charge / discharge power [kW]	2.5@continuous, 3.5@15minutes	2.5*2@continuous, 3.5*2@15minutes	2.5*3@continuous, 3.5*3@15minutes	2.5*4@continuous, 3.5*4@15minutes	2.5*5@continuous, 3.5*5@15minutes	2.5*6@continuous, 3.5*6@15minutes	2.5*7@continuous, 3.5*7@15minutes	2.5*8@continuous, 3.5*8@15minutes
Max. continuous charge / discharge current [A] (@35°C)	6.9	13.8	20.7	27.6	34.5	41.4	48.3	50
Peak charge / discharge current [A] (@30°C, 15min)	8.54	17.08	25.62	34.16	42.7	50	50	50
Rated Voltag / Voltage rang [V]	410 / 362 ~ 464							
Operating ambient temperature	-20~50°C							
Operating ambient humidity	0~100% RH							
Cooling	Natural Convection							
Altitude	≤3000m							
Ingress Protection rate	IP66							
Mounting	Floor-Mounted / Wall-Mounted							
Cell type and Cell Room Temperature Cycle Life(25°C±2°C)	LFP, 6000 Cycles 0.5C/0.5C @70%SOH							
Standard warranty [years]	10 (The warranty is due whichever reached first of warranty period or Cell room Temperature Cycle Life)							
Certification	IEC62477-1, IEC62040-1, IEC62619, IEC 63056, ISO 13849, ISO 4892-4, UN38.3/MSDS, VDE-AR-N 2510-50, IEC61000-6-1/-2/-3/-4							
PCS Model	MH-HYIV5.0 -THE	MH-HYIV6.0 -THE	MH-HYIV8.0 -THE	MH-HYIV10.0 -THE	MH-HYIV10.0 -THE-BE	MH-HYIV12.0 -THE	MH-HYIV15.0 -THE	
PV Input								
Max. input power [W]	10000	12000	16000	20000	20000	24000	30000	
Max. input voltage [V]	1000							
Rated input voltage [V]	650							
MPPT voltage range [V]	180-850							
Startup voltage [V]	200							
Max. input current per MPPT [A]	20/20				20/20/20			
Max. short circuit current per MPPT [A]	25/25				25/25/25			
Number of MPPTs / PV strings per MPPT	2 / 1+1				3 / 1+1+1			
Battery data								
Battery voltage range [V]	320-495							
Max.charge/discharge current [A]*@350V	25/16.5	25/19.8	25/25	37/32.9	37/29.9	37/37	46.8/46.8	
AC Grid Side (On-grid)								
Rated output power [W]	5000	6000	8000	10000	10000	12000	15000	
Max. output apparent power [VA]	5500	6600	8800	11000	10000	13200	16500	
Max. input apparent power from grid [VA]	10000	12000	16000	20000	20000	24000	29600	
Rated grid voltage [V] / frequency [Hz]	380 / 400 V, 50 / 60 Hz							
Max. output current [A]	8.4	10	13.4	16.7	15.2	20	25	
Max. input current from grid [A]	15.2	18.2	24.3	30.4	30.4	36.5	43	
Power factor	~1 (Adjustable from 0.8 leading to 0.8 lagging)							
I.TH.D [%]	≤3@Rated power							
Backup port								
Rated power [W]	5000	6000	8000	10000	10000	12000	15000	
Max. output apparent power [VA]	5500	6600	8800	11000	10000	13200	16500	
Rated grid voltage [V] / frequency [Hz]	380 / 400 V, 50 / 60 Hz							
Max. output current [A]	8.4	10	13.4	16.7	15.2	20	25	
Max. output peak power [W] / durement[s]	10000, 10s	12000, 10s	16000, 10s	20000, 10s	20000, 10s	24000, 10s	24000, 10s	
Switch time to backup mode [ms]	≤10							
Efficiency								
Max.efficiency / Euro efficiency [%]	97.5 / 95.5	97.5 / 95.9	97.5 / 96.5	97.5 / 96.8	97.5 / 96.8	97.5 / 96.9	97.5 / 97.2	
Safety protection feature	LVRT, HVRT, Anti-islanding protection, AC output overvoltage / undervoltage protection, AC short circuit protection, AC overcurrent protection, Leakage current protection, DC / AC surge protection, PV insulation resistance detection, PV reverse polarity protection, PV input overvoltage protection, Battery reverse polarity protection, Earthing fault protection, DC arcing detection and protection							
System data								
Dimension (W*H*D) [mm]	710*495*255							
Weight [kg]	36				40			
Topology	Non-Isolated							
Operating temperature range [°C]	-20~+60(derating at +45)							
Relative humidity	0 ~ 100%							
Max. operation altitude [m]	≤3000							
Ingress protection	IP66							
Cooling method	Natural Convection				Smart air cooling			
User interface	LED, APP							
Standard warranty [years]	10.0							
Certification	IIEC 62109-1: 2010, IEC 62109-2: 2011, EN 62109-1: 2010, EN 62109-2: 2010, IEC 61000-6-1/2/3/4, EN62920, IEC 61000-4-16/18/29, IEC 61683, EN50530, CEI 0-21, VDE4105, AS/NZS4777.2, AS60947.3, EN50549-1/-10, TOR TypeA, NC RFG Type A, C10/C11, G98+G99+G100, IEC61727, IEC62116, SFS-EN50549-1, NTS+UNE217001+UNE217002+RD647							

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

Single phase 3~6kW							
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	500	500	500	500	500	500
Rated input voltage [V]	370	370	370	370	370	370	370
MPPT voltage range [V]	125-425	125-425	125-425	125-425	125-425	125-425	125-425
Startup voltage [V]	125	125	125	125	125	125	125
Max. input current per MPPT [A]	18.0/18.0	18.0/18.0	18.0/18.0	18.0/18.0	18.0/18.0	18.0/18.0	18.0/18.0
Max. short circuit current per MPPT [A]	27.0/27.0	27.0/27.0	27.0/27.0	27.0/27.0	27.0/27.0	27.0/27.0	27.0/27.0
Number of MPPTs / Number of PV strings per MPPT	2 / 1+1	2 / 1+1	2 / 1+1	2 / 1+1	2 / 1+1	2 / 1+1	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	40-60	40-60	40-60	40-60	40-60	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	220 / 230	220 / 230	220 / 230	220 / 230	220 / 230	220 / 230
Rated grid frequency [Hz]	50 / 60	50 / 60	50 / 60	50 / 60	50 / 60	50 / 60	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.TH.D [%]	<3@Rated power	<3@Rated power	<3@Rated power	<3@Rated power	<3@Rated power	<3@Rated power	<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	220/230	220/230	220/230	220/230	220/230	220/230
Rated output frequency [Hz]	50/60	50/60	50/60	50/60	50/60	50/60	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] / duration [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	<3@Linear Load	<3@Linear Load	<3@Linear Load	<3@Linear Load	<3@Linear Load	<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						

Three phase 20~30kW						
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	1000	1000	1000	1000	
Rated input voltage [V]	650	650	650	650	650	
MPPT voltage range [V]	160-850	160-850	160-850	160-850	160-850	
Startup voltage [V]	180	180	180	180	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	Lithium-ion	Lithium-ion	Lithium-ion	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	3L/N/PE, 220 / 380, 230 / 400	3L/N/PE, 220 / 380, 230 / 400	3L/N/PE, 220 / 380, 230 / 400	3L/N/PE, 220 / 380, 230 / 400	
Rated grid frequency [Hz]	50 / 60	50 / 60	50 / 60	50 / 60	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.TH.D [%]	<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	3L/N/PE, 220 / 380, 230 / 400	3L/N/PE, 220 / 380, 230 / 400	3L/N/PE, 220 / 380, 230 / 400	3L/N/PE, 220 / 380, 230 / 400	
Rated output frequency [Hz]	50 / 60	50 / 60	50 / 60	50 / 60	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	< 10	< 10	< 10	< 10	
Output V. THD [%]	<3@Linear Load	<3@Linear Load	<3@Linear Load	<3@Linear Load	<3@Linear Load	
Efficiency						
Max.efficiency [%]	97.80%	97.80%	97.80%	97.80%	97.80%	
Euro efficiency [%]	97.20%	97.20%	97.20%	97.20%	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

Midea HICONICS						
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

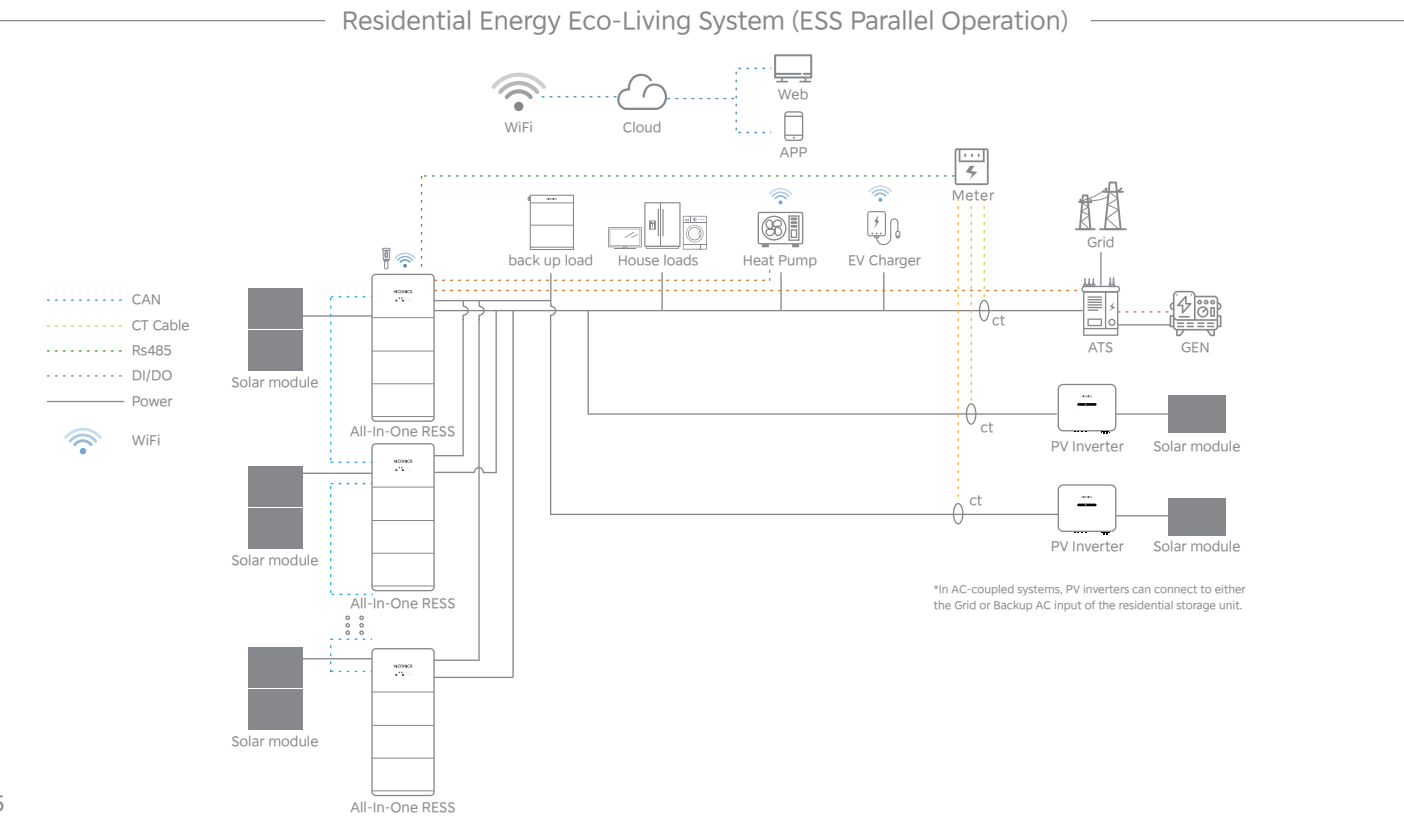
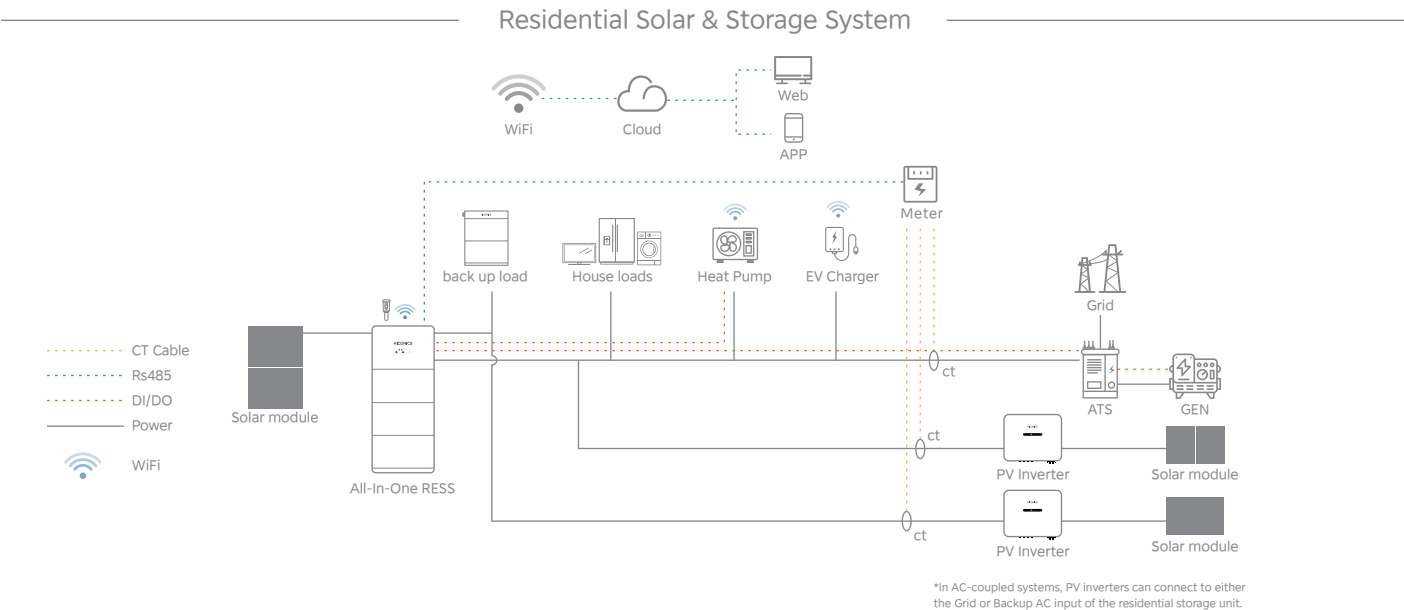
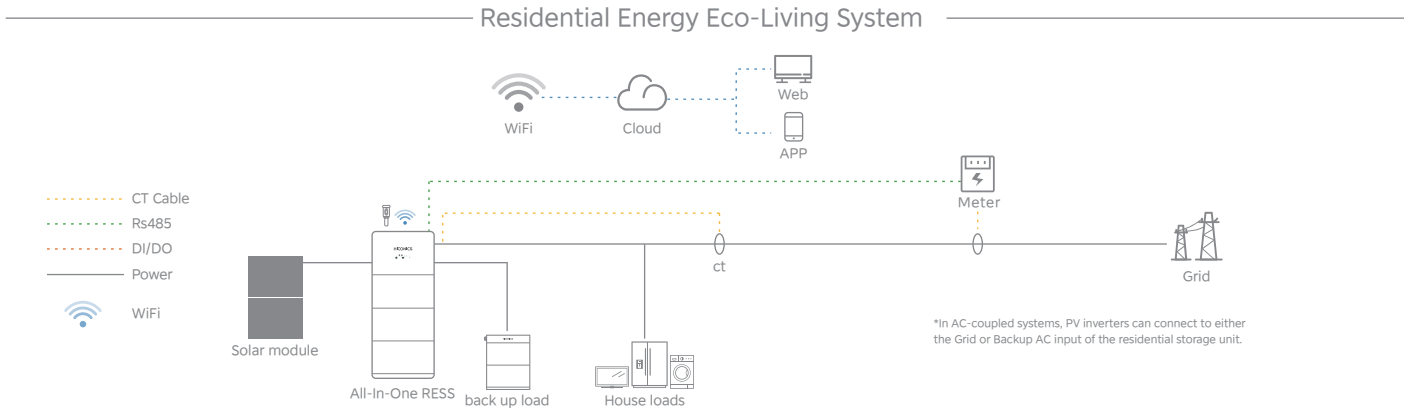
Item	Specifications / Pack		Specifications / Battery System		
Model	MH-BAT5.0-LRA	MH-BATS5.0-LRA	MH-BATS10.0-LRA	MH-BATS15.0-LRA	MH-BATS20.0-LRA
Number of stacked battery packs	/	1	2	3	4
Nominal Energy [kWh]	5.1	5.1	10.2	15.3	20.4
Usable Energy [kWh]	4.59	4.59	9.18	13.77	18.36
Max. charge power [kW]	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 Hiconics: Where Clean Energy Meets smart Living

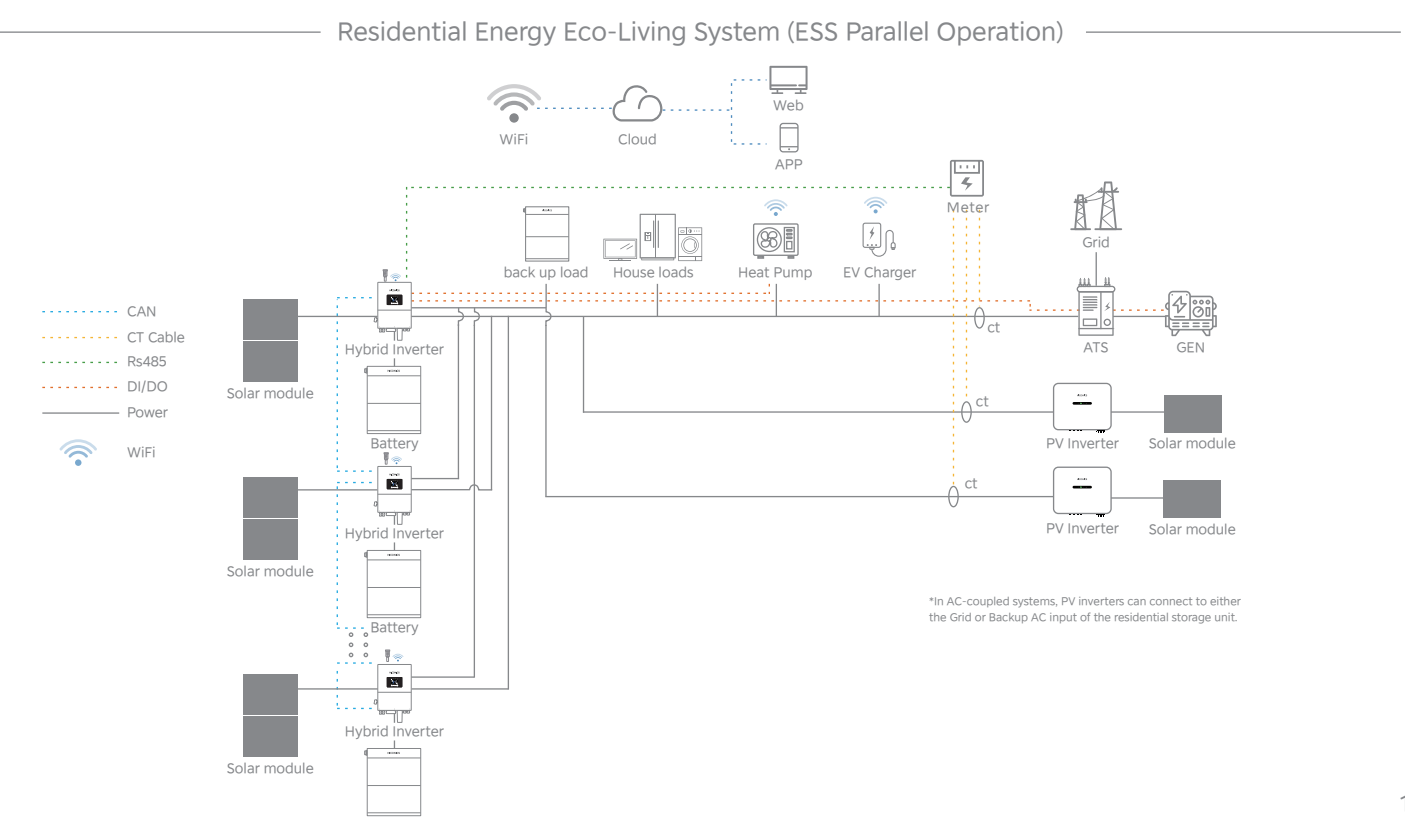
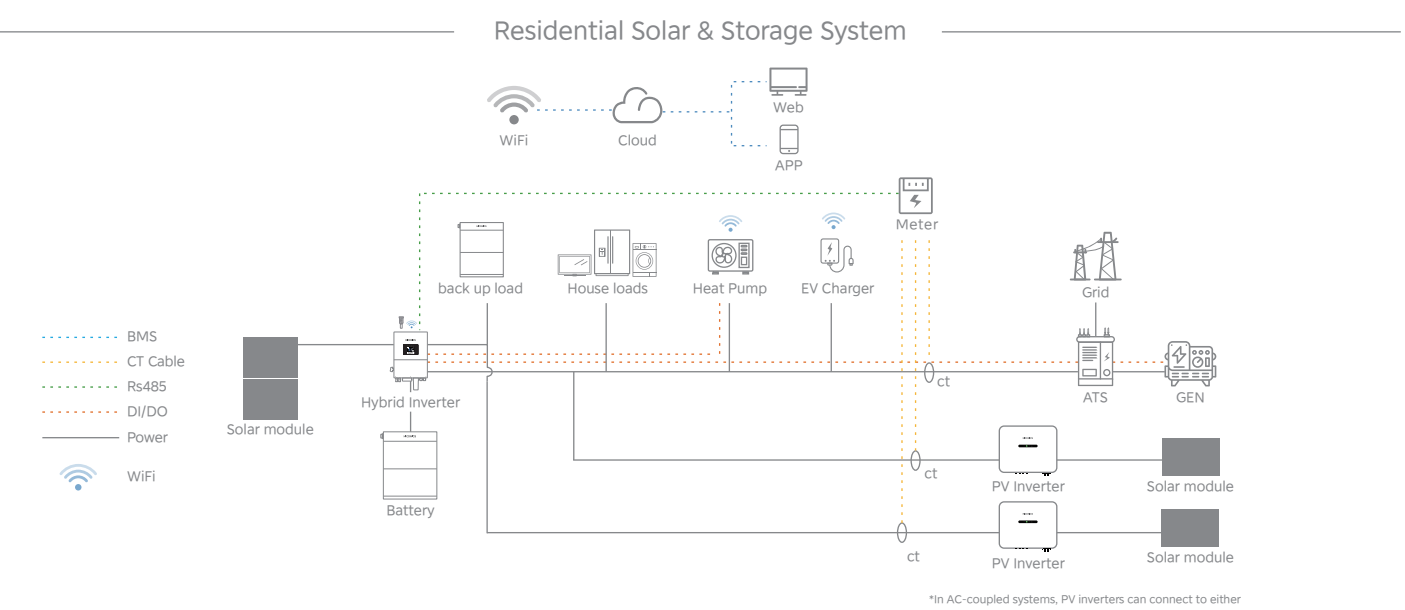
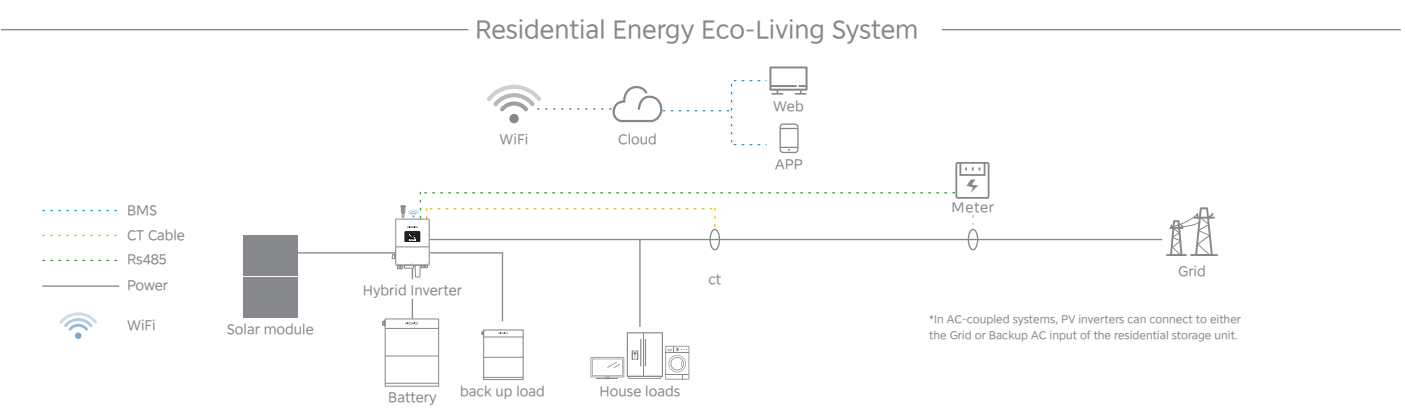
Integrated & Scalable Architecture

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.



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.



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

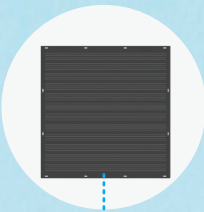
SMART CONTROL

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

	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.				

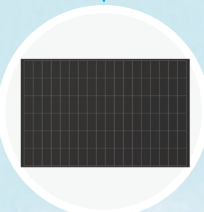
Model	HEC2-T8.0Hr2-Eu		HEC2-T10.0Hr2-Eu		HEC2-T12.0Hr2-Eu		HEC2-T15.0Hr2-Eu	
PV Input								
Max. PV array power[kW]	13.5 (4.25+4.25/5.0)		16.5(5.25+5.25/6.0)		18(5.5+5.5/7.0)		22.5(7.0+7.0/8.5)	
Max. open circuit voltage[V]					1000			
Max. input current(A/B)[A]	26/16		26/16		26/16		26/16	
Max. short 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 (mm^2)	4-6							
AC Connector(mm^2)	6-10							
Standard warranty[years]	10							

POWERDECK SERIES BALCONY PV SYSTEM



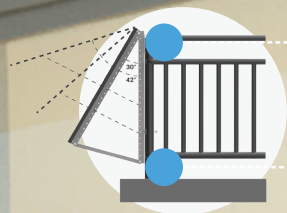
Flex Module

- 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

Flex module			Solid module		
I Microinverter Model			I Microinverter Model		
MH-MCIV0.8-SN			MH-MCIV0.8-SN		
Microinverter	Max Output Power [W]	800	Microinverter	Max Output Power [W]	800
	MPPT Voltage Range [Vdc]	32-45		MPPT Voltage Range [Vdc]	32-45
	Number of MPPT	2		Number of MPPT	2
	Max Number of PV String per MPPT	1		Max Number of PV String per MPPT	1
	Max DC Input Current [A]	14/14		Max DC Input Current [A]	14/14
	Max Short Circuit Current [A]	25/25		Max Short Circuit Current [A]	25/25
	Nominal Output Power [W]	800		Nominal Output Power [W]	800
	Max Output Current [A]	3.5		Max Output Current [A]	3.5
	Nominal Output Current [A]	3.5		Nominal Output Current [A]	3.5
	AC Fault Short Circuit Current [A]	20		AC Fault Short Circuit Current [A]	20
	Output Overcurrent Protection Current [A]	10		Output Overcurrent Protection Current [A]	10
	Rated Grid Voltage	~230V, L/N/PE		Rated Grid Voltage	~230V, L/N/PE
	Grid Voltage Range [Vdc]	187-253		Grid Voltage Range [Vdc]	187-253
	Nominal Grid Frequency [Hz]	50/60		Nominal Grid Frequency [Hz]	50/60
	Max MPPT Efficiency [%]	99.8		Max MPPT Efficiency [%]	99.8
	Enclosure Enviromental Rating	IP67		Enclosure Enviromental Rating	IP67
	Anti-Islanding Protection	Yes		Anti-Islanding Protection	Yes
	AC Overvoltage/Undervoltage Protection	Yes		AC Overvoltage/Undervoltage Protection	Yes
	AC Overcurrent/Short Circuit Protection	Yes		AC Overcurrent/Short Circuit Protection	Yes
	Surge Protection	Yes		Surge Protection	Yes
	PV Reverse Polarity Protection	Yes		PV Reverse Polarity Protection	Yes
	PV Insulation Resistance Detection	Yes		PV Insulation Resistance Detection	Yes
	Operating Temperature [C°]	-40 ~ +65		Operating Temperature [C°]	-40 ~ +65
	Storage Temperature [C°]	-40 ~ +70		Storage Temperature [C°]	-40 ~ +70
	Max Operation Altitude [m]	2000		Max Operation Altitude [m]	2000
	Relative Humidity	0% ~ 100%		Relative Humidity	0% ~ 100%
	Cooling Method	Natural Convection		Cooling Method	Natural Convection
	PV Connector	MC4		PV Connector	MC4
	Communication	Wi-Fi		Communication	Wi-Fi
	Dimension (W*H*D) [mm]	246*235.5*40.5		Dimension (W*H*D) [mm]	246*235.5*40.5
	Weight [Kg]	3.6		Weight [Kg]	3.6
	Warranty	12 Years		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;		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	Module	Module Model	P 210
	Nominal Module Output [W]	440		Nominal Module Output [W]	210
	Cell Type	N-Type Mono-Crystalline		Cell Type	Mono Crystalline Half Cell
	Number of Cell	108		Number of Cell	72
	Module Dimensions [L*W*H]	1762 × 1134 × 30 mm		Module Dimensions [L*W*H]	1083 × 1104 × 2.5 mm
	Module Weight [Kg]	21		Module Weight [Kg]	4.5
	Frame	Anodized Aluminum Alloy		Frame	Framless
	Operating Temperature [C°]	-40 ~ +70		Operating Temperature [C°]	-40 ~ +85
	Power Tolerance	0 ~ ±3%		Power Tolerance	0 ~ ±3%
	Warranty	25 Years		Warranty	12 Years
Efficiency	Mounting Bracket	Included	Efficiency	AC Cable Length [m]	1*5
	AC Cable Length [m]	1*5		AC Cable Cordial Area [mm2]	1
	AC Cable Cordial Area [mm2]	1		PV Cable Extention Length [m]	2*1
	PV Cable Extention Length [m]	2*1		PVCable Cordial Area [mm2]	4
	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.

