



ENERGY LINKS ALL  
**MIDEA  
HICONICS**  
PRODUCT CATALOG

📍 Midea-Hiconics New Energy, No.3, Boxing Road, Daxing District, Beijing, China  
🌐 [www.hiconics-global.com](http://www.hiconics-global.com)  
✉ [solar\\_service@midea.com](mailto:solar_service@midea.com)



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# About Midea

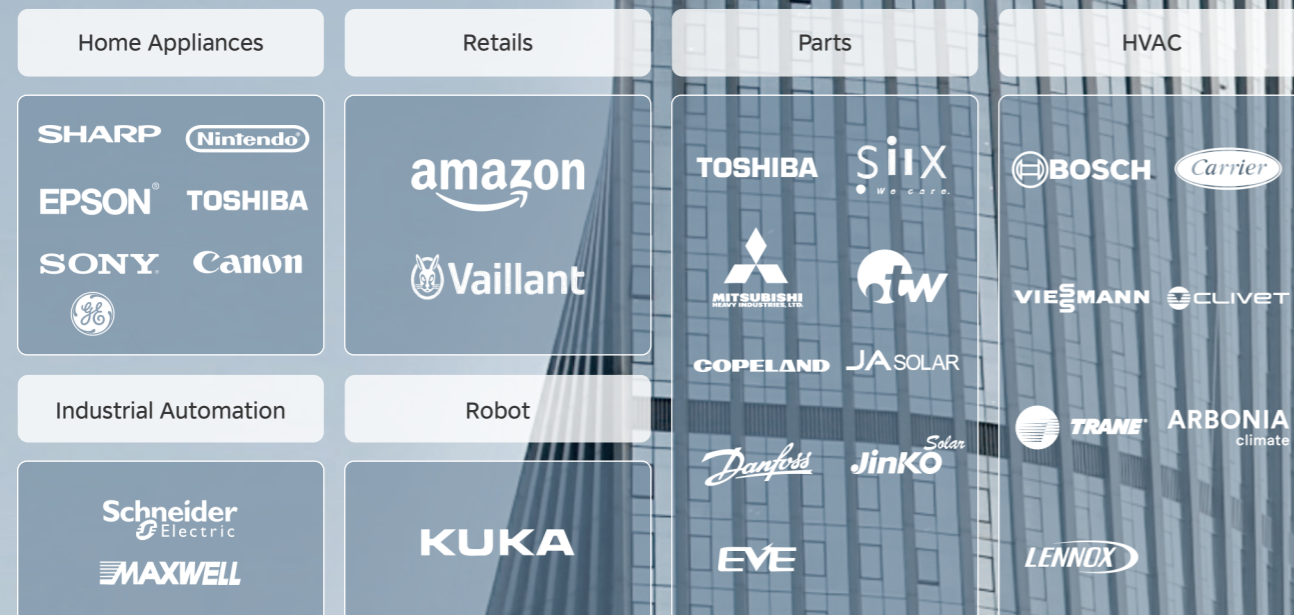
**Founded in 1968**  
"Bring Great Innovations To Life"

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.

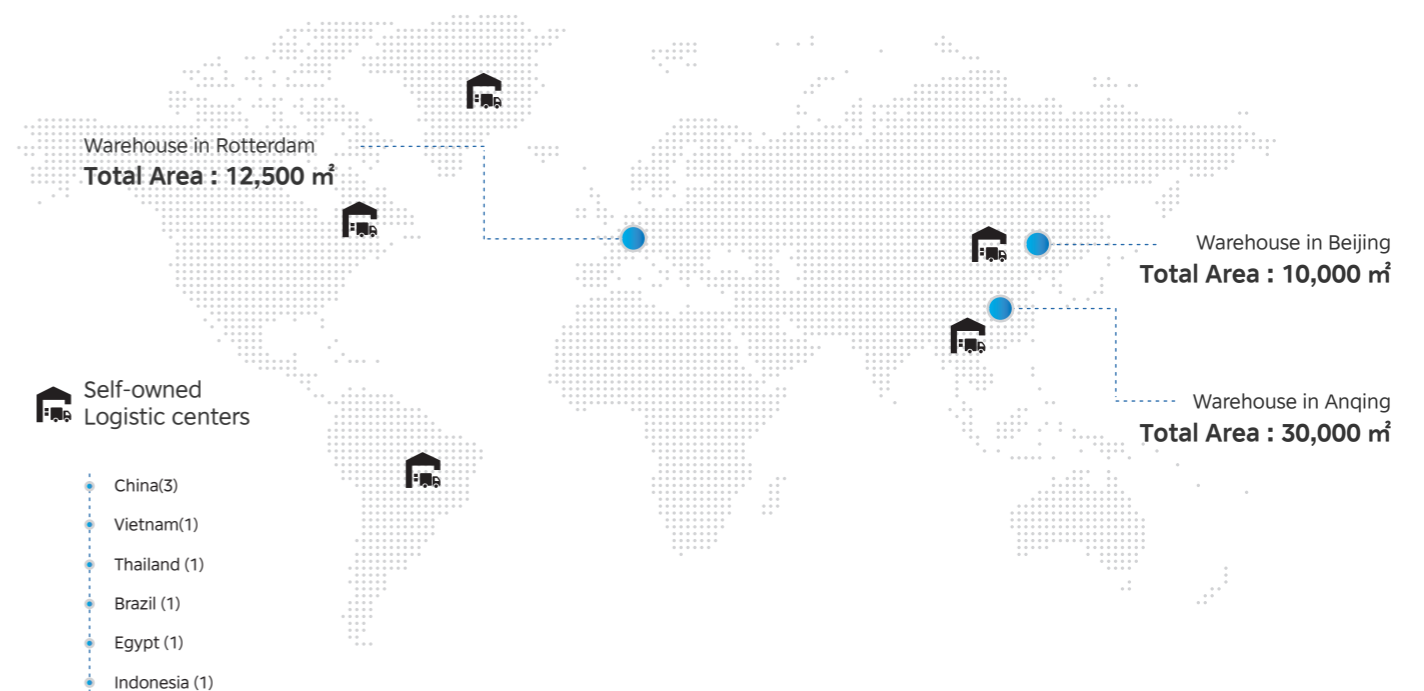
## Main Business



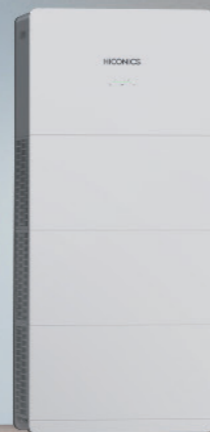
## R&D Capability



## Service



# POWERINFI SERIES G2 ALL-IN-ONE RESS SOLUTION



3-8kW / 5-40kWh  
5-15kW / 5-60kWh

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
- Energy Insights on Apple Watch

## 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

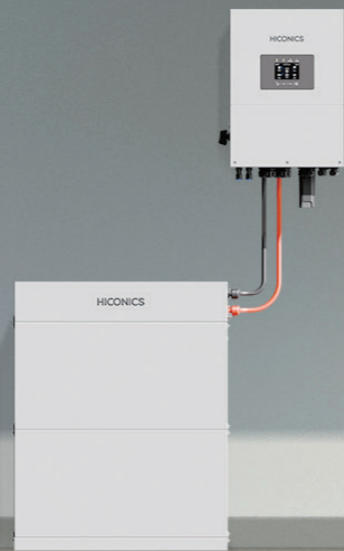
- 8-level battery protection
- Meets global safety standards
- Module AFCI, IP66 rated
- Insulation & leakage protection

| 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              |
|--|---|------------------------------------|------------------------------------|------------------------------------|------------------------------------|-----------------------------------|-----------------------------------|-----------------------------|
| <b>PV Input</b>  |   |                                    |                                    |                                    |                                    |                                   |                                   |                             |
| 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   |                                    |                                    |                                    |                                    |                                   |                                   |                             |
| Max. short circuit current per MPPT [A]                  | 25/25/25  |                                    |                                    |                                    |                                    |                                   |                                   |                             |
| Number of MPPTs / PV strings per MPPT                    | 2 / 1+1   |                                    |                                    |                                    |                                    |                                   |                                   |                             |
| <b>Battery data</b>                                      |   |                                    |                                    |                                    |                                    |                                   |                                   |                             |
| 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                       |
| <b>AC Grid Side (On-grid)</b>                            |   |                                    |                                    |                                    |                                    |                                   |                                   |                             |
| 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  |                                    |                                    |                                    |                                    |                                   |                                   |                             |
| <b>Backup port</b>                                       |   |                                    |                                    |                                    |                                    |                                   |                                   |                             |
| 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] / duration [s]                 | 6000, 10s   | 7360, 10s                          | 7600, 10s                          | 8000, 10s                          | 9200, 10s                          | 10000, 10s                        | 12000, 10s                        | 12000, 10s                  |
| Switch time to backup mode [ms]                          | <10   |                                    |                                    |                                    |                                    |                                   |                                   |                             |
| <b>Efficiency</b>  |   |                                    |                                    |                                    |                                    |                                   |                                   |                             |
| 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                 |
| <b>Protection</b>  |   |                                    |                                    |                                    |                                    |                                   |                                   |                             |
| 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   |                                    |                                    |                                    |                                    |                                   |                                   |                             |
| <b>System data</b>                                       |   |                                    |                                    |                                    |                                    |                                   |                                   |                             |
| Dimension (W*H*D) [mm]                                   | 710*395*232   |                                    |                                    |                                    |                                    |                                   |                                   |                             |
| Weight [kg]  | 27  |                                    |                                    |                                    |                                    |                                   |                                   |                             |
| 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: 2010, EN IEC 61000-6-1:2019, EN IEC 61000-6-2:2019, EN IEC 61000-6-3:2021, EN IEC 61000-6-4:2019 EN 62920:2017+A11+A1 CEI 0-21:2022, Clause A.4.6, IEC 62920:2017+A1, NRS 097-2-1:2024, clause 4.9 CISPR 11:2024, CISPR 16-2-1:2014+A1, IEC 61000-2-2:2002+A1+A2, IEC 61683, EN50530, IEC60068, CEI 0-21, AS/NZS4777.2, AS60947.3, EN50549-1/-10, C10/C11, G98+G99+G100, IEC61727, IEC62116, NTS+UNE217001+UNE217002+RD647, NRS 097-2-1, TR 3.3.1:2024, MEA/PEA |                                    |                                    |                                    |                                    |                                   |                                   |                             |
| <b>Battery System Model</b>                              |   |                                    |                                    |                                    |                                    |                                   |                                   |                             |
| Battery System Model                                     | MH-BAT5.0-HPE-G   | MH-BAT10.0-HPE-G                   | MH-BAT15.0-HPE-G                   | MH-BAT20.0-HPE-G                   | MH-BAT25.0-HPE-G                   | MH-BAT30.0-HPE-G                  | MH-BAT35.0-HPE-G                  | MH-BAT40.0-HPE-G            |
| Sizes (W*H*T) [mm]                                       | 710*465*170   | 710*835*170                        | 710*1205*170                       | 710*1575*170                       | 710*1260*170 / 710*835*170         | 710*1260*170 / 710*1205*170       | 710*1630*170 / 710*1205*170       | 710*1630*170 / 710*1575*170 |
| Weight[kg]   | 56.4  | 106.4                              | 156.4                              | 206.4                              | 266.9                              | 316.9                             | 366.9                             | 416.9                       |
| 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@10minutes  | 2.5*2@continuous / 3.5*2@10minutes | 2.5*3@continuous / 3.5*3@10minutes | 2.5*4@continuous / 3.5*4@10minutes | 2.5*5@continuous / 3.5*5@10minutes | 2.5*6@continuous / 20.5@10minutes | 2.5*7@continuous / 20.5@10minutes | 20.5 continuous             |
| Max. continuous charge / discharge current [A]           | 6.9   | 13.8                               | 20.7                               | 27.6                               | 34.5                               | 41.4                              | 48.3                              | 50                          |
| Peak charge / discharge current [A] (10min)              | 8.54  | 17.08                              | 25.62                              | 34.16                              | 42.7                               | 50                                | 50                                | 50                          |
| Rated Voltage/Voltage Range                              | 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 expires upon whichever comes first: the warranty period or the battery cell 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                   |                             |
|--|---|------------------------------------|------------------------------------|------------------------------------|------------------------------------|-----------------------------------|-----------------------------------|-----------------------------|
| <b>PV Input</b>  |   |                                    |                                    |                                    |                                    |                                   |                                   |                             |
| 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   |                                    |                                    |                                    |                                    |                                   |                                   |                             |
| Max. short circuit current per MPPT [A]                  | 25/25/25  |                                    |                                    |                                    |                                    |                                   |                                   |                             |
| Number of MPPTs / PV strings per MPPT                    | 2 / 1+1   |                                    |                                    |                                    |                                    |                                   |                                   |                             |
| <b>Battery data</b>                                      |   |                                    |                                    |                                    |                                    |                                   |                                   |                             |
| 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                         |                             |
| <b>AC Grid Side (On-grid)</b>                            |   |                                    |                                    |                                    |                                    |                                   |                                   |                             |
| 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  |                                    |                                    |                                    |                                    |                                   |                                   |                             |
| <b>Backup port</b>                                       |   |                                    |                                    |                                    |                                    |                                   |                                   |                             |
| 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] / duration [s]                | 10000, 10s  | 12000, 10s                         | 16000, 10s                         | 20000, 10s                         | 20000, 10s                         | 24000, 10s                        | 24000, 10s                        |                             |
| Switch time to backup mode [ms]                          | <10   |                                    |                                    |                                    |                                    |                                   |                                   |                             |
| <b>Efficiency</b>  |   |                                    |                                    |                                    |                                    |                                   |                                   |                             |
| 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                       |                             |
| <b>Protection</b>  |   |                                    |                                    |                                    |                                    |                                   |                                   |                             |
| 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 |                                    |                                    |                                    |                                    |                                   |                                   |                             |
| <b>System data</b>                                       |   |                                    |                                    |                                    |                                    |                                   |                                   |                             |
| Dimension (W*H*D) [mm]                                   | 710*495*255   |                                    |                                    |                                    |                                    |                                   |                                   |                             |
| Weight [kg]  | 36  |                                    |                                    |                                    |                                    |                                   |                                   |                             |
| 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: 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, TR3.3.1, EIFS 2018:2, IEC63056, ETSI EN303645  |                                    |                                    |                                    |                                    |                                   |                                   |                             |
| <b>Battery System Model</b>                              |   |                                    |                                    |                                    |                                    |                                   |                                   |                             |
| Battery System Model                                     | MH-BAT5.0-HPE-G   | MH-BAT10.0-HPE-G                   | MH-BAT15.0-HPE-G                   | MH-BAT20.0-HPE-G                   | MH-BAT25.0-HPE-G                   | MH-BAT30.0-HPE-G                  | MH-BAT35.0-HPE-G                  | MH-BAT40.0-HPE-G            |
| Sizes (W*H*T) [mm]                                       | 710*465*170   | 710*835*170                        | 710*1205*170                       | 710*1575*170                       | 710*1260*170 / 710*835*170         | 710*1260*170 / 710*1205*170       | 710*1630*170 / 710*1205*170       | 710*1630*170 / 710*1575*170 |
| Weight[kg]   | 56.4  | 106.4                              | 156.4                              | 206.4                              | 266.9                              | 316.9                             | 366.9                             | 416.9                       |
| 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@10minutes  | 2.5*2@continuous / 3.5*2@10minutes | 2.5*3@continuous / 3.5*3@10minutes | 2.5*4@continuous / 3.5*4@10minutes | 2.5*5@continuous / 3.5*5@10minutes | 2.5*6@continuous / 20.5@10minutes | 2.5*7@continuous / 20.5@10minutes | 20.5 continuous             |
| Max. continuous charge / discharge current [A]           | 6.9   | 13.8                               | 20.7                               | 27.6                               | 34.5                               | 41.4                              | 48.3                              | 50                          |
| Peak charge / discharge current [A] (10min)              | 8.54  | 17.08                              | 25.62                              | 34.16                              | 42.7                               | 50                                | 50                                | 50                          |
| Rated Voltage/Voltage Range                              | 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 expires upon whichever comes first: the warranty period or the battery cell 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  |                                    |                                    |                                    |                                    |                                   |                                   |                             |

**Remarks:** Our all-in-one unit supports flexible battery capacity expansion from 5 kWh to 60 kWh. Note that some capacity models are not fully displayed due to display/system limitations.

# POWERX1 SERIES HYBRID INVERTER



3~6kW / 5~20kWh

15~30kW / 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
- Energy Insights on Apple Watch

| Model  | MH-HYIV3.0<br>-SL-EU  | MH-HYIV3.6<br>-SL-EU | MH-HYIV4.0<br>-SL-EU | MH-HYIV4.6<br>-SL-EU | MH-HYIV5.0<br>-SL-EU | MH-HYIV6.0<br>-SL-EU | MH-HYIV5.0<br>-SL-BE |
|--|---|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|
| <b>PV Input</b>  |   |                      |                      |                      |                      |                      |                      |
| Max. input power [W]                                       | 4800  | 5760                 | 6400                 | 7360                 | 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   |                      |                      |                      |                      |                      |                      |
| <b>Battery data</b>  |   |                      |                      |                      |                      |                      |                      |
| Battery type   | Lithium-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                  |
| <b>AC Grid Side (On-grid)</b>                              |   |                      |                      |                      |                      |                      |                      |
| 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  | 16.0                 | 20.0                 | 22.7                 | 25.0                 | 30.0                 | 22.7                 |
| 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  |                      |                      |                      |                      |                      |                      |
| <b>Backup port</b>   |   |                      |                      |                      |                      |                      |                      |
| 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  | 18.2                 | 20.0                 | 22.7                 | 25.0                 | 30.0                 | 22.7                 |
| 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  |                      |                      |                      |                      |                      |                      |
| <b>Efficiency</b>  |   |                      |                      |                      |                      |                      |                      |
| Max. efficiency [%]  | 97.0  | 97.0                 | 97.0                 | 97.3                 | 97.3                 | 97.3                 | 97.3                 |
| Euro efficiency [%]  | 96.0  | 96.0                 | 96.0                 | 96.2                 | 96.2                 | 96.2                 | 96.2                 |
| <b>Protection</b>  |   |                      |                      |                      |                      |                      |                      |
| 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) |                      |                      |                      |                      |                      |                      |
| <b>System data</b>   |   |                      |                      |                      |                      |                      |                      |
| 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 (10)*   |                      |                      |                      |                      |                      |                      |
| Certification  | IEC 62109-1&2, IEC 61000-6-1, IEC 61000-6-3, IEC/EN62920, IEC 60068, IEC 61683, IEC63027, IEC60730, EN303645, IEC 61727, IEC 62116, G98/G99/G100, CEI-021, EN50549-1/EN50549-10, NRS 097-2-1, C10/C11, UNE 217001/UNE 217002, PEA+MEA   |                      |                      |                      |                      |                      |                      |

\*10 Year Warranty Campaign - Refer to Warranty Terms &amp; Conditions

| Model  | MH-HYIV15.0-TH-S4   | MH-HYIV20.0-TH | MH-HYIV25.0-TH | MH-HYIV29.9-TH | MH-HYIV30.0-TH |
|--|---|----------------|----------------|----------------|----------------|
| <b>PV Input</b>  |   |                |                |                |                |
| 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        |
| <b>Battery data</b>  |   |                |                |                |                |
| Battery type   | Lithium-ion   |                |                |                |                |
| Max. charge / discharge power [W]                          | 16500   | 22000          | 27500          | 30000          | 33000          |
| Battery voltage range [V]                                  | 160-750   |                |                |                |                |
| Max. charge / Discharge current [A]                        | 50  | 50             | 50+50          | 50+50          | 50+50          |
| Number of Battery Input                                    | 1   | 1              | 2              | 2              | 2              |
| <b>AC Grid Side (On-grid)</b>                              |   |                |                |                |                |
| 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.TH.D [%]   | <3@Rated power  |                |                |                |                |
| <b>Backup port</b>   |   |                |                |                |                |
| 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] / duration [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  |                |                |                |                |
| <b>Efficiency</b>  |   |                |                |                |                |
| Max. efficiency [%]  | 97.8%   | 97.8%          | 97.8%          | 97.8%          | 97.8%          |
| Euro efficiency [%]  | 96.7%   | 97.2%          | 97.2%          | 97.2%          | 97.2%          |
| <b>Protection</b>  |   |                |                |                |                |
| 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 |                |                |                |                |
| <b>System data</b>   |   |                |                |                |                |
| Dimension (W*H*D) [mm]                                     | 550*800*230   |                |                |                |                |
| Weight [kg]  | 46.5  | 50             |                |                |                |
| Topology   | Non-Isolated  |                |                |                |                |
| Operating temperature range [°C]                           | -25~+60   |                |                |                |                |
| Relative humidity  | 0-100%  |                |                |                |                |
| Max. operation altitude [m]                                | 3000m   |                |                |                |                |
| Ingress protection   | IP66  |                |                |                |                |
| Cooling method   | Intelligent fan-cooling   |                |                |                |                |
| User interface   | LED, APP, LCD   |                |                |                |                |
| Communication with BMS                                     | CAN   |                |                |                |                |
| Typical noise emission [dB]                                | < 55  | < 55           | < 60           | < 60           | < 60           |
| Standard warranty [years]                                  | 5 (10)*   |                |                |                |                |
| Certification  | IEC 62109-1&2, IEC 61000-6-1, IEC 61000-6-3, IEC/EN62920, IEC 60068, IEC 61683, IEC63027, IEC60730, EN303645, IEC 61727, IEC 62116, EN50549-1/EN50549-10, IS 16221/IS 16169/IS 17980  |                |                |                |                |

\*10 Year Warranty Campaign - Refer to Warranty Terms &amp; Conditions

# HOME STACKABLE LOW VOLTAGE BATTERY



### Safe & Long-Lasting

- LiFePO<sub>4</sub> 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

- 200A peak discharge
- Operates from -20°C to 55°C with built-in heating

| Item  | Specifications / Pack   | Specifications / Junction Box   | Specifications / Battery System   |                 |                 |                 |
|---|---|---|---|-----------------|-----------------|-----------------|
|   |   |   | MH-BATS5.0-LST  | MH-BATS10.0-LST | MH-BATS15.0-LST | MH-BATS20.0-LST |
| 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            |
| Max. charge power [kW]                        | 3.072   | 6.144   | 3.072   | 6.144           | 6.144           | 6.144           |
| Max. discharge power [kW]                     | 3.072   | 6.144   | 3.072   | 6.144           | 6.144           | 6.144           |
| Sizes (W*H*D) [mm]                            | 635*320*170   | 635*120*170   | 635*480*170   | 635*800*170     | 635*1120*170    | 635*1440*170    |
| Weight[kg]                                    | 45  | 8   | 53  | 98              | 143             | 188             |
| 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]                              | 44.8-57.6   | 44.8-57.6   | 44.8-57.6   |                 |                 |                 |
| Cell room Temperature Cycle Life *            | 6000 Cycles<br>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: -20°C~55°C /<br>Discharge: -20°C~55°C                                       | -20~55°C  | Charge: -20°C~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,<br>IEC 62040-1, IEC 60730,<br>UN 38.3/MSDS,<br>(EU) 2023/1542 | IEC 62619, IEC 63056,<br>IEC 62040-1, IEC 60730,<br>UN 38.3/MSDS,<br>(EU) 2023/1542 | IEC 62619, IEC 63056, IEC 62040-1, IEC 60730,<br>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 /<br>Wall-Mounted   | Floor-Mounted /<br>Wall-Mounted   | Floor-Mounted / Wall-Mounted  |                 |                 |                 |
| Parallel Number                               | Max.4 PCS   |   |   |                 |                 |                 |

\* The warranty expires upon whichever comes first: the standard warranty period or the performance warranty period.

# HOME RACK-MOUNTED LOW VOLTAGE BATTERY



### Safe & Long-Lasting



- LiFePO<sub>4</sub> 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



- 200A peak discharge
- Operates from -20°C to 55°C

| Item   | Specifications / Pack                         |  | Specifications / Battery System              |       |       |       |
|--|---|--|--|-------|-------|-------|
|  | MH-BAT5.0-LRA                                 |  | 1  | 2     | 3     | 4     |
| Model  | MH-BAT5.0-LRA                                 |  | MH-BATS5.0-LRA                               |       |       |       |
| Number of stacked battery packs              | /   |  | 1  | 2     | 3     | 4     |
| Nominal Energy [kWh]                         | 5.1   |  | 5.1  | 10.2  | 15.3  | 20.4  |
| 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]                                   | 44  |  | /  | /     | /     | /     |
| 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 Voltage [V]                            | 51.2  |  | 51.2   |       |       |       |
| Voltage range [V]                            | 44.8-57.6                                     |  | 44.8-57.6                                    |       |       |       |
| Cell room Temperature Cycle Life *           | 6000 Cycles<br>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 /<br>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,<br>UN 38.3/MSDS         |  | IEC 62619, IEC 60730,<br>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                                |       |       |       |
| Parallel Number                              |   |  | Max.4 PCS                                    |       |       |       |

\* The warranty expires upon whichever comes first: the standard warranty period or the performance warranty period.

# HIGH-VOLTAGE BATTERY SYSTEM



| Battery System MODEL                           | MH-BAT5.0-HP  | MH-BAT10.0-HP                       | MH-BAT15.0-HP                       | MH-BAT20.0-HP                       | MH-BAT25.0-HP                       | MH-BAT30.0-HP                      |
|--|---|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|------------------------------------|
| Number of stacked battery packs per column     | 1   | 2                                   | 3                                   | 4                                   | 3/2                                 | 3/3                                |
| Nominal Energy [kWh]                           | 5.12  | 10.24                               | 15.36                               | 20.48                               | 25.6                                | 30.72                              |
| Usable Energy [kWh]                            | 5   | 10                                  | 15                                  | 20                                  | 25                                  | 30                                 |
| Max. charge / discharge power [kW]             | 2.5@continuous<br>3.5@10minutes   | 2.5*2@continuous<br>3.5*2@10minutes | 2.5*3@continuous<br>3.5*3@10minutes | 2.5*4@continuous<br>3.5*4@10minutes | 2.5*5@continuous<br>3.5*5@10minutes | 2.5*6@continuous<br>20.5@10minutes |
| Max. continuous charge / discharge current [A] | 6.9   | 13.8                                | 20.7                                | 27.6                                | 34.5                                | 41.4                               |
| Peak charge / discharge current [A] (10min)    | 8.5   | 17.1                                | 25.6                                | 34.2                                | 42.7                                | 50.0                               |
| Rated voltage                                  | 410   |                                     |                                     |                                     |                                     |                                    |
| Voltage range [V]                              | 362~464   |                                     |                                     |                                     |                                     |                                    |
| Battery Chemistry                              | LFP   |                                     |                                     |                                     |                                     |                                    |
| Sizes (W*H*D) [mm]                             | 710*675*170   | 710*1045*170                        | 710*1415*170                        | 710*1785*170                        | 710*1260*170 /<br>710*1045*170      | 710*1260*170 /<br>710*1415*170     |
| Range  | 66.4  | 116.4                               | 166.4                               | 211.4                               | 276.9                               | 326.9                              |
| Cell room Temperature Cycle Life *             | 6000 Cycles 0.5C/0.5C 25°C±2°C @70%SOH  |                                     |                                     |                                     |                                     |                                    |
| Operating ambient temperature                  | -20~50°C  |                                     |                                     |                                     |                                     |                                    |
| Operating ambient humidity                     | 0~100% RH   |                                     |                                     |                                     |                                     |                                    |
| Cooling  | Natural Convection  |                                     |                                     |                                     |                                     |                                    |
| Altitude [m]                                   | ≤3000   |                                     |                                     |                                     |                                     |                                    |
| Communication port                             | CAN   |                                     |                                     |                                     |                                     |                                    |
| Regulation compliance                          | IEC62477-1, IEC62040-1, IEC62619, IEC 63056, ISO 13849, ISO 4892-4, UN38.3/MSDS, VDE-AR-N 2510-50 |                                     |                                     |                                     |                                     |                                    |
| EMC standard                                   | IEC61000-6-1/-2/-3/-4   |                                     |                                     |                                     |                                     |                                    |
| Ingress Protection rate                        | IP66  |                                     |                                     |                                     |                                     |                                    |
| Mounting                                       | Floor-Mounted / Wall-Mounted  |                                     |                                     |                                     |                                     |                                    |

| Battery System MODEL                           | MH-BAT35.0-HP   | MH-BAT40.0-HP                  | MH-BAT45.0-HP                                    | MH-BAT50.0-HP                                    | MH-BAT55.0-HP                                    | MH-BAT60.0-HP                                    |
|--|---|--------------------------------|--|--|--|--|
| Number of stacked battery packs per column     | 4/3   | 4/4                            | 3/3/3  | 4/3/3  | 4/4/3  | 4/4/4  |
| Nominal Energy [kWh]                           | 35.84   | 40.96                          | 46.08  | 51.2   | 56.32  | 61.44  |
| Usable Energy [kWh]                            | 35  | 40                             | 45   | 50   | 55   | 60   |
| Max. charge / discharge power [kW]             | 2.5*7@continuous<br>20.5@10minutes  | 20.5continuous                 | 20.5continuous                                   | 20.5continuous                                   | 20.5continuous                                   | 20.5continuous                                   |
| Max. continuous charge / discharge current [A] | 48.3  | 50                             | 50   | 50   | 50   | 50   |
| Peak charge / discharge current [A] (10min)    | 50.0  | 50                             | 50   | 50   | 50   | 50   |
| Rated voltage                                  | 410   |                                |  |  |  |  |
| Voltage range [V]                              | 362~464   |                                |  |  |  |  |
| Battery Chemistry                              | LFP   |                                |  |  |  |  |
| Sizes (W*H*D) [mm]                             | 710*1630*170 /<br>710*1415*170  | 710*1630*170 /<br>710*1785*170 | 710*1260*170 /<br>710*1260*170 /<br>710*1415*170 | 710*1630*170 /<br>710*1260*170 /<br>710*1415*170 | 710*1630*170 /<br>710*1630*170 /<br>710*1415*170 | 710*1630*170 /<br>710*1630*170 /<br>710*1785*170 |
| Weight   | 376.9   | 426.9                          | 487.4  | 537.4  | 587.4  | 637.4  |
| Cell room Temperature Cycle Life *             | 6000 Cycles 0.5C/0.5C 25°C±2°C @70%SOH  |                                |  |  |  |  |
| Operating ambient temperature                  | -20~50°C  |                                |  |  |  |  |
| Operating ambient humidity                     | 0~100% RH   |                                |  |  |  |  |
| Cooling  | Natural Convection  |                                |  |  |  |  |
| Altitude [m]                                   | ≤3000   |                                |  |  |  |  |
| Communication port                             | CAN   |                                |  |  |  |  |
| Regulation compliance                          | IEC62477-1, IEC62040-1, IEC62619, IEC 63056, ISO 13849, ISO 4892-4, UN38.3/MSDS, VDE-AR-N 2510-50 |                                |  |  |  |  |
| EMC standard                                   | IEC61000-6-1/-2/-3/-4   |                                |  |  |  |  |
| Ingress Protection rate                        | IP66  |                                |  |  |  |  |
| Mounting                                       | Floor-Mounted / Wall-Mounted  |                                |  |  |  |  |
| Warranty Period*                               | 10* years   |                                |  |  |  |  |

\* The warranty expires upon whichever comes first: the standard warranty period or the performance warranty period.

### Safe & Long-Lasting



- 8 Level Battery Safety Protection
- ISO13849 Functional Safety
- Built-in heating for operation down to -20 °C
- Eco-friendly, non-toxic materials

### Modular & Scalable



- Integrated battery optimizer—supports mixing old and new modules
- Expandable up to 12 units (max. 60 kWh)
- Smart built-in BMS with remote monitoring and auto networking

### Quick & Easy Installation



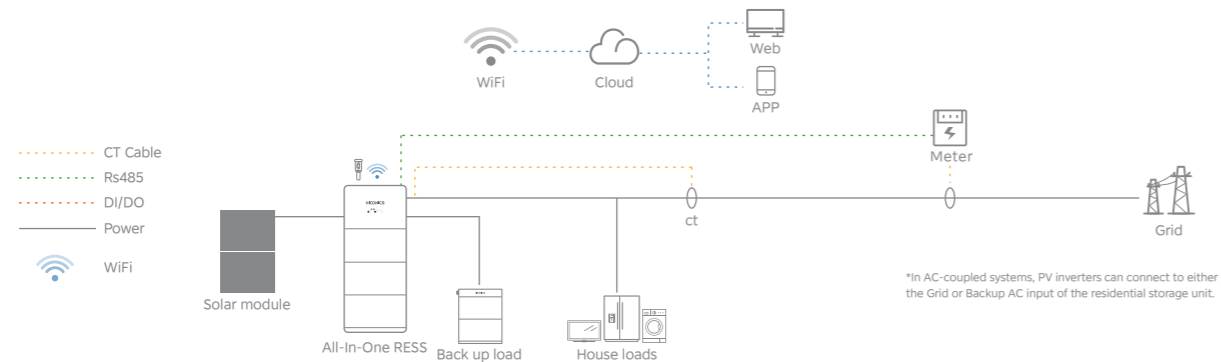
- Stackable design, wall or floor mount
- No wiring between modules, plug-and-play design
- Fast setup by a single person
- IP66 rated for both indoor and outdoor use

# Midea Hiconics: Where Clean Energy Meets smart Living

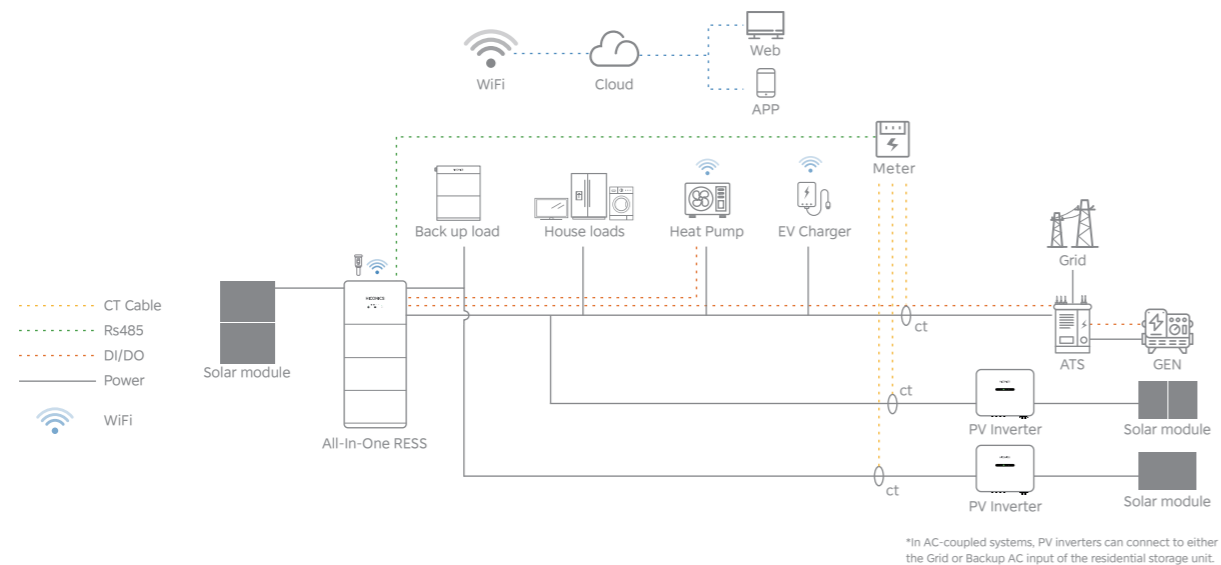
## Integrated & Scalable Architecture

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.

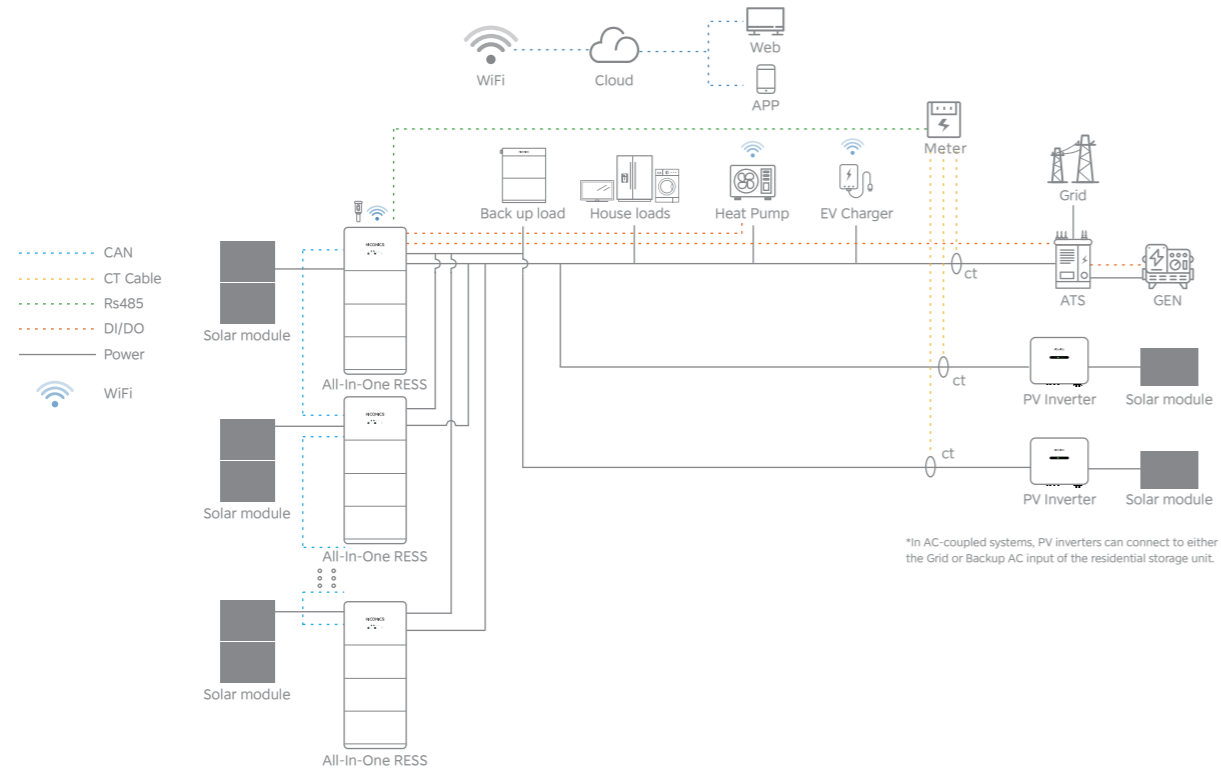
Residential Energy Eco-Living System



Residential Solar & Storage System



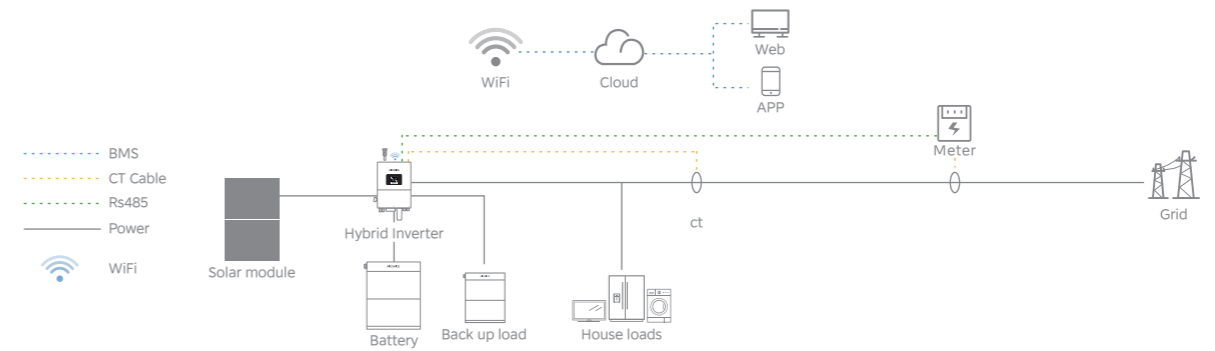
Residential Energy Eco-Living System (ESS Parallel Operation)



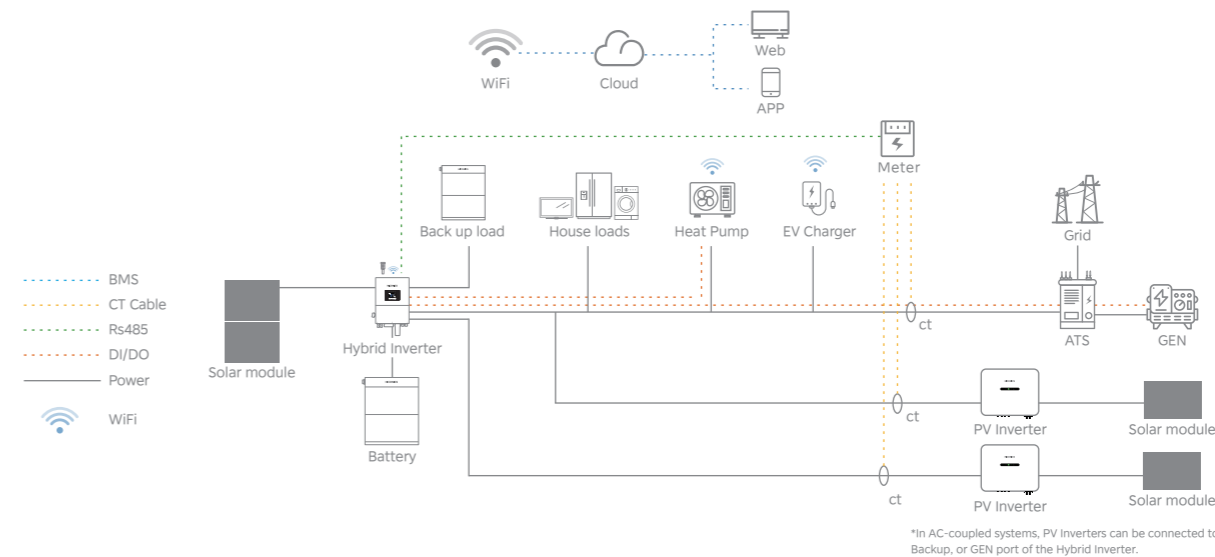
## Intelligent Energy Orchestration

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.

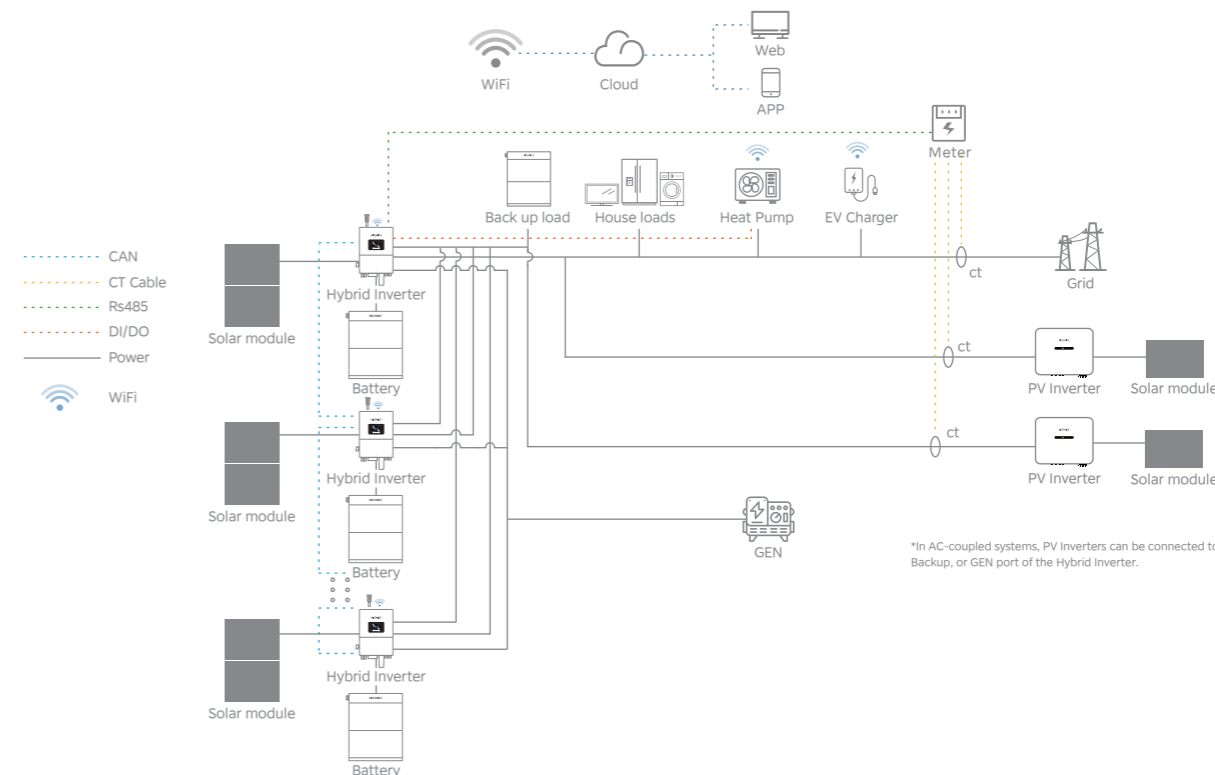
Residential Energy Eco-Living System



Residential Solar & Storage System



Residential Energy Eco-Living System (ESS Parallel Operation)



# HIENERGY SERIES ALL-IN-ONE RESS

3.68~6kW / 5~30kWh    Single-Phase  
8~15kW / 10~40kWh    Three-Phase

## ULTIMATE SAFETY

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

## EASY INSTALLATION

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

## RESIDENTIAL INTEGRATION

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

## SMART CONTROL

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

| Model   | HEC2-S3.68Hr2                                   | HEC2-S3.8Hr2                 | HEC2-S5.0Hr2                 | HEC2-S6.0Hr2                 |
|---|---|------------------------------|------------------------------|------------------------------|
| <b>PV Input</b>   |   |                              |                              |                              |
| Max.PV array power[kWp]                                     | 7.5 (3.75+3.75)                                 |                              |                              |                              |
| Max.DC voltage[V]   | 600 <sup>±3</sup>                               |                              |                              |                              |
| 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   |                              |                              |                              |
| <b>BAT Side</b>   |   |                              |                              |                              |
| Battery voltage range[V]                                    | 85 <sup>±4</sup> -400                           |                              |                              |                              |
| Max.charge/discharge current[A]*2                           | 25/25   |                              |                              |                              |
| <b>AC Grid Side(On-grid)</b>                                |   |                              |                              |                              |
| Nominal AC output power[W]                                  | 3680  | 3800                         | 5000 <sup>*1</sup>           | 6000 <sup>*1</sup>           |
| Max.Output Power(W)   | 3680  | 3800                         | 5000 <sup>*1</sup>           | 6000 <sup>*1</sup>           |
| Max. Apparent Power Output to Utility Grid (VA)             | 3680  | 3800                         | 5000 <sup>*1</sup>           | 6000 <sup>*1</sup>           |
| Nominal Apparent Power from Utility Grid (VA)               | 3680  | 3800                         | 5000                         | 6000                         |
| Max. Apparent Power from Utility Grid (VA)                  | 6000 <sup>*6</sup>                              | 6000 <sup>*6</sup>           | 6000 <sup>*6</sup>           | 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 <sup>*6</sup>                         | 26.1A a.c <sup>*6</sup>      | 26.1A a.c <sup>*6</sup>      | 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               |                              |
| <b>EPS Side</b>   |   |                              |                              |                              |
| 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                                  |                              |                              |                              |
| <b>EFFICIENCY</b>   |   |                              |                              |                              |
| 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)<br>95.4(BAT-AC)                    | 97.6(PV-BAT)<br>95.4(BAT-AC) | 97.6(PV-BAT)<br>96.3(BAT-AC) | 97.6(PV-BAT)<br>96.0(BAT-AC) |
| <b>ENVIRONMENT LIMIT</b>                                    |   |                              |                              |                              |
| 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)*7                      |                              |                              |                              |
| Max.operation altitude[m]                                   | <2000   |                              |                              |                              |
| Humidity  | 0-100%  |                              |                              |                              |
| 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 <sup>2</sup> )                       |                              |                              |                              |
| 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 voltage must be greater than 95V.  
 \*5:The power is 6000W according to the grid port.  
 \*6:The value will appear when the grid is charging battery and support EPS load.  
 \*7: Upper limited temperature for inverter is 60 degree, for battery is 55 degree.

| Model  | HEC2-T8.0Hr2-Eu   | HEC2-T10.0Hr2-Eu    | HEC2-T12.0Hr2-Eu | HEC2-T15.0Hr2-Eu  |
|--|---|---------------------|------------------|-------------------|
| <b>PV Input</b>  |   |                     |                  |                   |
| Max. PV array power[kWp]                                       | 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   |                     |                  |                   |
| <b>BAT Input</b>   |   |                     |                  |                   |
| Battery voltage range[V]                                       | 180-650   |                     |                  |                   |
| Nominal charge/discharge current[A]                            | 30/30   |                     |                  |                   |
| <b>AC Grid Input</b>   |   |                     |                  |                   |
| 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   |                     |                  |                   |
| <b>AC Grid Output</b>  |   |                     |                  |                   |
| Nominal AC output power[W]                                     | 8000  | 10000               | 12000            | 15000             |
| Max. AC output power[W]  | 8800  | 11000               | 13200            | 15000             |
| Max apparent power to Utility Grid [VA]                        | 8800  | 11000               | 13200            | 15000             |
| Nominal grid voltage[V]  | 415/240 ~ ;400/230 ~ ;380/220V ~ ;3L/N/PE                           |                     |                  |                   |
| Nominal grid frequency[Hz]                                     | 50/60   |                     |                  |                   |
| Max output AC current[A]                                       | 13.3  | 16.7                | 20               | 24                |
| Nominal output AC current[A]                                   | 11.6@230VAC   | 14.5@230VAC         | 17.4@230VAC      | 21.7@230VAC       |
| Displacement power factor                                      | -0.8~0.8  |                     |                  |                   |
| THD[%]   | <3@Rated power  |                     |                  |                   |
| <b>EPS(Off-grid) Output</b>                                    |   |                     |                  |                   |
| Nominal EPS output 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  |                     |                  |                   |
| <b>EFFICIENCY</b>  |   |                     |                  |                   |
| MPPT Max. efficiency[%]  | 99.9  |                     |                  |                   |
| Euro efficiency[%]   | 96.1  |                     |                  |                   |
| Max efficiency[%]  | 97.7  |                     |                  |                   |
| Battery charge/discharge efficiency[%]                         | 98.5(PV-BAT), 97(BAT-AC)  |                     |                  |                   |
| <b>ENVIRONMENT LIMIT</b>                                       |   |                     |                  |                   |
| 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   |                     |                  |                   |
| <b>DIMENSION AND WEIGHT</b>                                    |   |                     |                  |                   |
| 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 <sup>2</sup> )                                 | 4-6   |                     |                  |                   |
| AC Connector(mm <sup>2</sup> )                                 | 6-10  |                     |                  |                   |
| <b>Standard warranty[years]</b>                                | 10  |                     |                  |                   |

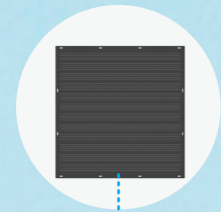
| Battery                              | HEC2-BHP50r2-EU   | HEC2-BHP100r2-EU           | HEC2-BHP150r2-EU            | HEC2-BHP200r2-EU* <sup>8</sup> |
|--------------------------------------|---|----------------------------|-----------------------------|--------------------------------|
| Component                            | Base+BMS+1*Module* <sup>7</sup>   | 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                          |
| Number of Battery Modules            | 1   | 2                          | 3                           | 4                              |
| Nominal capacity [Ah]                | 50  | 50                         | 50                          | 50                             |
| Nominal 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)   |                            |                             |                                |
| Operating temperature [°C]           | -20 to 55 (derating above 45°C)   |                            |                             |                                |
| Storage Temperature [°C]             | -20°C to 55°C (1 months) ; -20°C to 45°C (3 months) ; -20°C to 35°C(1 year) |                            |                             |                                |
| Altitude [m]                         | Below 2000 m  |                            |                             |                                |
| 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                         |
| Dimension(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  |                            |                             |                                |

| Battery                              | HEC2-BHP200r2-A-EU  | HEC2-BHP300r2-A-EU           | HEC2-BHP400r2-A-EU* <sup>8</sup> |
|--------------------------------------|---|------------------------------|----------------------------------|
| Component                            | 2*(Base+BMS+2*Module)   | 2*(Base+BMS+3*Module)        | 2*(Base+BMS+4*Module)            |
| Nominal Voltage [V]                  | 204.8   | 307.2                        | 409.6                            |
| Maximum protection voltage [V]       | 233.6   | 350.4                        | 467.2                            |
| Minimum protection voltage [V]       | 179.2   | 268.8                        | 358.4                            |
| Number of Battery Modules            | 4   | 6                            | 8                                |
| Nominal capacity [Ah]                | 100   | 100                          | 100                              |
| Nominal Energy [kWh]                 | 20.4  | 30.6                         | 40.8                             |
| Nominal Power [kW]                   | 10.24   | 15.36                        | 20.48                            |
| Nominal Charge/Discharge Current [A] | 50  |                              |                                  |
| Max. Charge/Discharge Current [A]    | 50  |                              |                                  |
| Cycle Life                           | 6000 Cycles (@0.5C,90%DOD,25°C,60%SOH)                                      |                              |                                  |
| Expected Life Time                   | 10 Years (60%SOH)   |                              |                                  |
| Operating temperature [°C]           | -20 to 55 (derating above 45°C)   |                              |                                  |
| Storage Temperature [°C]             | -20°C to 55°C (1 months) ; -20°C to 45°C (3 months) ; -20°C to 35°C(1 year) |                              |                                  |
| Altitude [m]                         | Below 2000 m  |                              |                                  |
| Protection                           | IP65  |                              |                                  |
| System to Inverter                   | RS485/CAN2.0  |                              |                                  |
| Battery to battery / BMS             | Daisy chain   |                              |                                  |
| Display Interface                    | LED   |                              |                                  |
| Switch on/off                        | Daisy chain   |                              |                                  |
| Weight [kg]                          | 248±12  | 358±16                       | 468±20                           |
| Dimension(W*H*D) [mm]                | (1600±20)*(840±30)*(160±20)   | (1600±20)*(1150±30)*(160±20) | (1600±20)*(1460±30)*(160±20)     |
| Remark                               | 1 Series  |                              |                                  |

**Remark:**

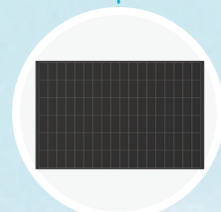
- \*1: The grid feed in power for VDE4105 is limited 4600VA.
- \*2: Battery charging current is limited 25A and power is limited 6000W.
- \*3: The machine may be damaged if PV port exceeds this voltage, full power operation voltage should be less than 480V, 480V-540V for limited power operation.
- \*4: Battery port boot voltage must be greater than 95V.
- \*5: The power is 6000W according to the grid port.
- \*6: The value will appear when the grid is charging battery and support EPS load.
- \*7: Model of battery modul:HEC2-SP50r2
- \*8: Only available for three phase system.

# POWERDECK SERIES BALCONY PV SYSTEM



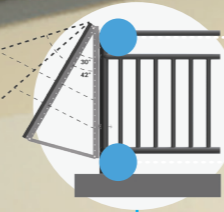
## Flex Module

- 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

| 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                       |

| 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

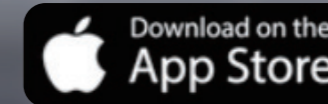


## Digital driven energy, HiEco links all

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.

