

# POWERINFI SERIES G2 ALL-IN-ONE RESS

All-in-One. All for You



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# About Midea Hiconics

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



VFDs Medium Voltage & Low Voltage



Residential Energy Storage System



Distributed PV EPC

## R&D Capability

44.5M<sub>USD</sub>

R & D Investment

300<sub>+</sub>

Granted Patents

ISO13849

Red dot & IF

## Manufacturing Center

Beijing

Total Area:10,900m<sup>2</sup>    Product Scope: VFDs/ESS  
Capability of RESS : 1.2GW / Year

Anqing

Total Area:25,000 m<sup>2</sup>    Product Scope: ESS/PV Inverter/Charger  
Capability of RESS : 3GW / Year

## Service

3

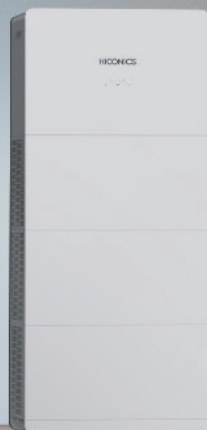
3-Tier Expert Support System  
Pre/After- sales+technical+ R&D teams

24

24 hours in response  
Immediate support within 24 hours



|                  |              |
|------------------|--------------|
| 3-8kW / 5-40kWh  | Single-Phase |
| 5-15kW / 5-40kWh | Three-Phase  |



- 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

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

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

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



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

Three Phase 5-15KW



| Battery System Model                                     | MH-BAT5.0<br>-HPE                                                                                                        | MH-BAT10.0<br>-HPE                | MH-BAT15.0<br>-HPE                | MH-BAT20.0<br>-HPE                | MH-BAT25.0<br>-HPE                | MH-BAT30.0<br>-HPE                | MH-BAT35.0<br>-HPE                | MH-BAT40.0<br>-HPE                |
|----------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|
| Component                                                | MH-BAT5.0-HPE                                                                                                            | MH-BAT5.0-HPE*2                   | MH-BAT5.0-HPE*3                   | MH-BAT5.0-HPE*4                   | MH-BAT5.0-HPE*3/2                 | MH-BAT5.0-HPE*3/3                 | MH-BAT5.0-HPE*4/3                 | MH-BAT5.0-HPE*4/4                 |
| Sizes (W*H*T) [mm]                                       | 710*425*170                                                                                                              | 710*795*170                       | 710*1165*170                      | 710*1535*170                      | 710*1220*170 / 710*795*170        | 710*1165*170 / 710*1220*170       | 710*1590*170 / 710*1165*170       | 710*1535*170 / 710*1590*170       |
| Weight[kg]                                               | 50                                                                                                                       | 100                               | 150                               | 200                               | 250                               | 300                               | 350                               | 400                               |
| Rated / Useable Capacity [kWh]                           | 5.12 / 5                                                                                                                 | 10.24 / 10                        | 15.36 / 15                        | 20.48 / 20                        | 25.6 / 25                         | 30.72 / 30                        | 35.84 / 35                        | 40.96 / 40                        |
| Max. charge / discharge power [kW]                       | 2.5@continuous, 3.5@15minutes                                                                                            | 2.5*2@continuous, 3.5*2@15minutes | 2.5*3@continuous, 3.5*3@15minutes | 2.5*4@continuous, 3.5*4@15minutes | 2.5*5@continuous, 3.5*5@15minutes | 2.5*6@continuous, 3.5*6@15minutes | 2.5*7@continuous, 3.5*7@15minutes | 2.5*8@continuous, 3.5*8@15minutes |
| Max. continuous charge / discharge current [A] (@35°C)   | 6.9                                                                                                                      | 13.8                              | 20.7                              | 27.6                              | 34.5                              | 41.4                              | 48.3                              | 50                                |
| Peak charge / discharge current [A] (@30°C, 15min)       | 8.54                                                                                                                     | 17.08                             | 25.62                             | 34.16                             | 42.7                              | 50                                | 50                                | 50                                |
| Rated Voltag / Voltage rang [V]                          | 410 / 362 ~ 464                                                                                                          |                                   |                                   |                                   |                                   |                                   |                                   |                                   |
| Operating ambient temperature                            | -20~50°C                                                                                                                 |                                   |                                   |                                   |                                   |                                   |                                   |                                   |
| Operating ambient humidity                               | 0~100% RH                                                                                                                |                                   |                                   |                                   |                                   |                                   |                                   |                                   |
| Cooling                                                  | Natural Convection                                                                                                       |                                   |                                   |                                   |                                   |                                   |                                   |                                   |
| Altitude                                                 | ≤3000m                                                                                                                   |                                   |                                   |                                   |                                   |                                   |                                   |                                   |
| Ingress Protection rate                                  | IP66                                                                                                                     |                                   |                                   |                                   |                                   |                                   |                                   |                                   |
| Mounting                                                 | Floor-Mounted / Wall-Mounted                                                                                             |                                   |                                   |                                   |                                   |                                   |                                   |                                   |
| Cell type and Cell Room Temperature Cycle Life(25°C±2°C) | LFP, 6000 Cycles 0.5C/0.5C @70%SOH                                                                                       |                                   |                                   |                                   |                                   |                                   |                                   |                                   |
| Standard warranty [years]                                | 10 (The warranty is due whichever reached first of warranty period or Cell room Temperature Cycle Life)                  |                                   |                                   |                                   |                                   |                                   |                                   |                                   |
| Certification                                            | IEC62477-1, IEC62040-1, IEC62619, IEC 63056, ISO 13849, ISO 4892-4, UN38.3/MSDS, VDE-AR-N 2510-50, IEC61000-6-1/-2/-3/-4 |                                   |                                   |                                   |                                   |                                   |                                   |                                   |

| PCS Model                               | MH-HYIV5.0<br>-THE | MH-HYIV6.0<br>-THE | MH-HYIV8.0<br>-THE | MH-HYIV10.0<br>-THE | MH-HYIV10.0<br>-THE-BE | MH-HYIV12.0<br>-THE | MH-HYIV15.0<br>-THE |
|-----------------------------------------|--------------------|--------------------|--------------------|---------------------|------------------------|---------------------|---------------------|
| PV Input                                |                    |                    |                    |                     |                        |                     |                     |
| Max. input power [W]                    | 10000              | 12000              | 16000              | 20000               | 20000                  | 24000               | 30000               |
| Max. input voltage [V]                  |                    |                    |                    | 1000                |                        |                     |                     |
| Rated input voltage [V]                 |                    |                    |                    | 650                 |                        |                     |                     |
| MPPT voltage range [V]                  |                    |                    |                    | 180-850             |                        |                     |                     |
| Startup voltage [V]                     |                    |                    |                    | 200                 |                        |                     |                     |
| Max. input current per MPPT [A]         |                    | 20/20              |                    |                     | 20/20/20               |                     |                     |
| Max. short circuit current per MPPT [A] |                    | 25/25              |                    |                     | 25/25/25               |                     |                     |
| Number of MPPTs / PV strings per MPPT   |                    | 2 / 1+1            |                    |                     | 3 / 1+1+1              |                     |                     |

| Battery data                             |                                                 |             |             |             |             |             |             |
|------------------------------------------|-------------------------------------------------|-------------|-------------|-------------|-------------|-------------|-------------|
| Battery voltage range [V]                | 320-495                                         |             |             |             |             |             |             |
| Max.charge/discharge current [A]*@350V   | 25/16.5                                         | 25/19.8     | 25/25       | 37/32.9     | 37/29.9     | 37/37       | 46.8/46.8   |
| AC Grid Side (On-grid)                   |                                                 |             |             |             |             |             |             |
| Rated output power [W]                   | 5000                                            | 6000        | 8000        | 10000       | 10000       | 12000       | 15000       |
| Max. output apparent power [VA]          | 5500                                            | 6600        | 8800        | 11000       | 10000       | 13200       | 16500       |
| Max. input apparent power from grid [VA] | 10000                                           | 12000       | 16000       | 20000       | 20000       | 24000       | 29600       |
| Rated grid voltage [V] / frequency [Hz]  | 380 / 400 V, 50 / 60 Hz                         |             |             |             |             |             |             |
| Max. output current [A]                  | 8.4                                             | 10          | 13.4        | 16.7        | 15.2        | 20          | 25          |
| Max. input current from grid [A]         | 15.2                                            | 18.2        | 24.3        | 30.4        | 30.4        | 36.5        | 43          |
| Power factor                             | ~1 (Adjustable from 0.8 leading to 0.8 lagging) |             |             |             |             |             |             |
| I.LTHD [%]                               | <3@Rated power                                  |             |             |             |             |             |             |
| Backup port                              |                                                 |             |             |             |             |             |             |
| Rated power [W]                          | 5000                                            | 6000        | 8000        | 10000       | 10000       | 12000       | 15000       |
| Max. output apparent power [VA]          | 5500                                            | 6600        | 8800        | 11000       | 10000       | 13200       | 16500       |
| Rated grid voltage [V] / frequency [Hz]  | 380 / 400 V, 50 / 60 Hz                         |             |             |             |             |             |             |
| Max. output current [A]                  | 8.4                                             | 10          | 13.4        | 16.7        | 15.2        | 20          | 25          |
| Max. output peak power [W] / durement[s] | 10000, 10s                                      | 12000, 10s  | 16000, 10s  | 20000, 10s  | 20000, 10s  | 24000, 10s  | 24000, 10s  |
| Switch time to backup mode [ms]          | <10                                             |             |             |             |             |             |             |
| Efficiency                               |                                                 |             |             |             |             |             |             |
| Max.efficiency / Euro efficiency [%]     | 97.5 / 95.5                                     | 97.5 / 95.9 | 97.5 / 96.5 | 97.5 / 96.8 | 97.5 / 96.8 | 97.5 / 96.9 | 97.5 / 97.2 |

|                                  |                                                                                                                                                                                                                                                                                                                                                                                                               |  |                   |
|----------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-------------------|
| Safety protection feature        | LVRT, HVRT, Anti-islanding protection, AC output overvoltage / undervoltage protection, AC short circuit protection, AC overcurrent protection, Leakage current protection, DC / AC surge protection, PV insulation resistance detection, PV reverse polarity protection, PV input overvoltage protection, Battery reverse polarity protection, Earthing fault protection, DC arcing detection and protection |  |                   |
| System data                      |                                                                                                                                                                                                                                                                                                                                                                                                               |  |                   |
| Dimension (W*H*D) [mm]           | 710*495*255                                                                                                                                                                                                                                                                                                                                                                                                   |  |                   |
| Weight [kg]                      | 36                                                                                                                                                                                                                                                                                                                                                                                                            |  | 40                |
| Topology                         | Non-Isolated                                                                                                                                                                                                                                                                                                                                                                                                  |  |                   |
| Operating temperature range [°C] | -20~+60(derating at +45)                                                                                                                                                                                                                                                                                                                                                                                      |  |                   |
| Relative humidity                | 0 ~ 100%                                                                                                                                                                                                                                                                                                                                                                                                      |  |                   |
| Max. operation altitude [m]      | ≤3000                                                                                                                                                                                                                                                                                                                                                                                                         |  |                   |
| Ingress protection               | IP66                                                                                                                                                                                                                                                                                                                                                                                                          |  |                   |
| Cooling method                   | Natural Convection                                                                                                                                                                                                                                                                                                                                                                                            |  | Smart air cooling |
| User interface                   | LED, APP                                                                                                                                                                                                                                                                                                                                                                                                      |  |                   |
| Standard warranty [years]        | 10.0                                                                                                                                                                                                                                                                                                                                                                                                          |  |                   |
| Certification                    | 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, NTS+UNE217001+UNE217002+RD647                                                                                |  |                   |

PowerInfi: Where Clean Energy Meets Smart Living

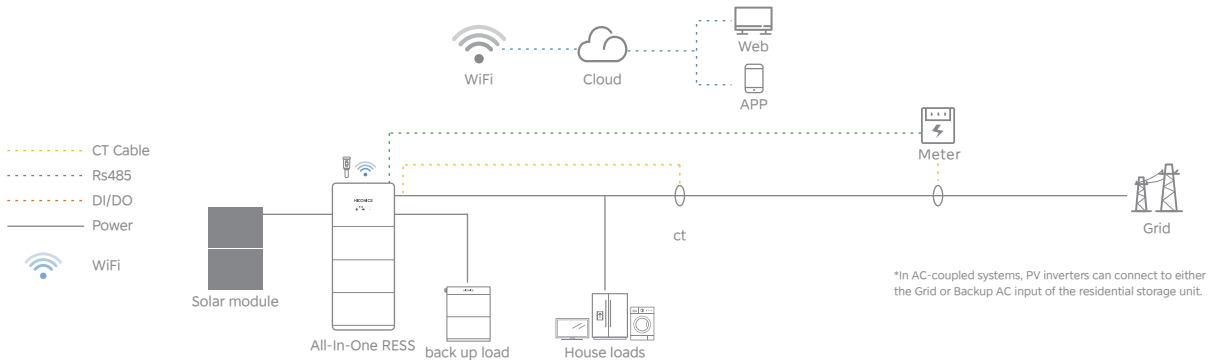
Integrated & Scalable Architecture

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

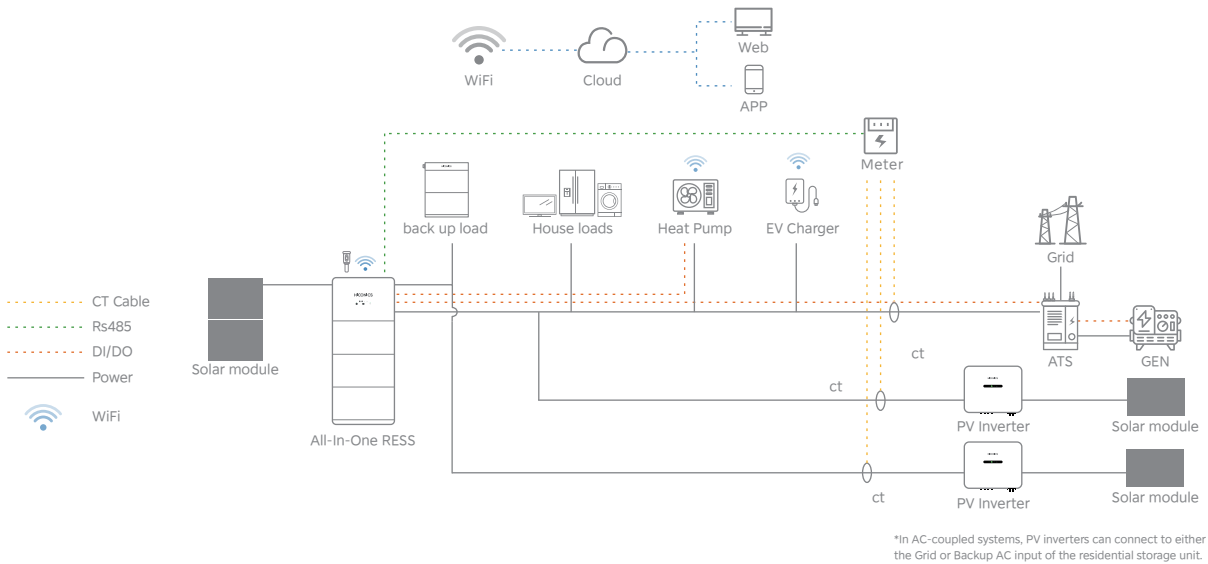
Intelligent Energy Orchestration

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

Residential Energy Eco-Living System



Residential Solar & Storage System



Residential Energy Eco-Living System (ESS Parallel Operation)

