



Residential Energy Storage System



- Shanghai
- Suzhou
- Xi'an
- Hong Kong
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- Brisbane
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- Silicon Vally

Enjoy Green Energy

A photograph of a baby sleeping peacefully in a crib. The crib is covered with a blue and white striped blanket. To the left of the crib, a teddy bear sits on a nightstand next to a lit lamp. The scene is dimly lit, creating a warm and cozy atmosphere. A semi-transparent white box with a red horizontal line is overlaid on the right side of the image, containing the title and text.

With iHome Energy Storage and PV solutions, managing your home solar systems has never been easier. iHome's products have added blackout protection and flexibility to join a virtual power plant, providing customers with a futureproofed and complete residential energy solution for all situations.



Easy

Easy installation

Easy O&M

Easy capacity expansion

Smart

Smart energy management

Automatic back-up switch

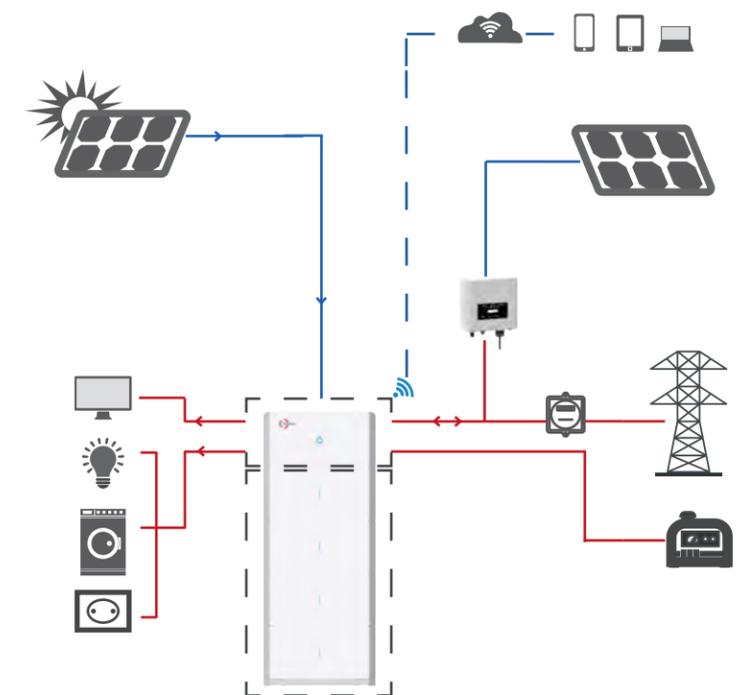
Intelligent monitoring

Investable

Reliable Power Protection

More flexible application

Long Service Life and more available capacity



iHome-B6.5-L01 Series(AU&EU)

Low Voltage Battery

The Chelion iHome-B-L01 Series is a top-class low voltage lithium battery designed with the home experience in mind. The battery will automatically recognize connected modules for an easier, faster, and safer installation. In addition to delivering unparalleled performance with an unprecedented ten-year service life.



| Items | iHome-B6.5-L01 |
|--|---|
| Battery type | LFP(LiFePO4) |
| Energy capacity | 6.5kWh |
| Cell configuration in pack | 16S2P |
| Total capacity pack | 128Ah |
| DOD | 94.50% |
| Rated capacity | 118Ah |
| Rated energy | 6.0kWh |
| Rated voltage | 51.2V |
| Voltage range | 44.8~57.6V |
| Max. charge / discharge current | 104.2A |
| Max. charge / discharge power | 5kW |
| Peak charge / discharge power(@3S) | 6.9kW |
| Dimensions(W*H*D) | 18.7*30.12*5.71inch (475*765*145mm) |
| Weight | 127.9±2.2lb (58±1kg) |
| Operating temperature | -14°F~122°F (-10~50°C) |
| Storage conditions | -4°F~113°F (-20~45°C); Within 6 month after each charge |
| Operating humidity | 5%-95%RH |
| RTE | 95% |
| Altitude | ≤6561.7 ft (2000m) |
| Cooling type | Passive cooling |
| Room temperature calendar life(25°C±2°C) | 10 years/60% SOH |
| Room temperature cycle life(25°C±2°C) | 6000 cycles/60%SOH |
| Connection method | Floor or Wall mounted |
| Communication interface | CAN; RS485 |
| Parallel connection | Max 8 PACKs |
| Ingress protection | IP55 |
| Certification | IEC 62619, IEC 62040, EN 61000, RCM, UN38.3 |

-  Top-class lithium iron phosphate battery with a long lifespan
-  Easy installation and capacity expansion
-  Automatically recognize modules
-  Multiple safety protection measures

iHome-INV-L1H02 Series (AU)

Single Phase Hybrid Inverter

The Chelion iHome-INV-L1H02 Series of hybrid energy storage inverter comes in a smaller and lighter form than its predecessor does. Its advanced design maximizes energy flexibility. Compatible with both on-and-off-grid PV systems, it can intelligently balance use from the grid or battery to ensure energy consumption is always within economic or user-defined thresholds.



-  DC couple and AC couple to retrofit existing solar system
-  6 time periods for battery charging/discharging
-  Up to 16 inverters in parallel even under off-grid condition
-  IP65 and fanless design with a long lifespan
-  Flexible applications and alternative energy sources input
-  Built-in UPS function with 4ms automatic switching time

| Items | iHome-INV3.6K-L1H02 | iHome-INV5K-L1H02 | iHome-INV6K-L1H02 |
|--------------------------------------|---------------------|---|-------------------|
| DC Input (PV) | | | |
| Recommended Max. PV input power | 4.68kW | 6.5kW | 7.8kW |
| Max. PV input voltage | | 500Vdc | |
| Max. PV input current | | 13+13A | |
| Max. short current | | 19.5+19.5A | |
| No. of MPPT / Strings per MPPT | | 2 / 1+1 | |
| Full load DC voltage range | | 300~425Vdc | |
| MPPT voltage range | | 150~425Vdc | |
| Starting voltage | | 125Vdc | |
| DC Input (BAT) | | | |
| Battery type | | Lead-acid or Li-Ion | |
| Battery voltage range | | 40~60Vdc | |
| Max. charge / discharge current | 90A | 120A | 135A |
| External temperature sensor | | Yes | |
| Charging curve | | 3 Stages / Equalization | |
| Charging strategy for Li-ion battery | | Self-adaption to BMS | |
| AC Output | | | |
| Rated AC output and UPS power | 3.6kW | 5.0kW | 6.0kW |
| Max. AC output and UPS power | 3.6kW | 5.0kW | 6.0kW |
| Rated AC current | 15.7 / 15A | 21.7 / 20.8A | 26.1 / 25A |
| Max. AC current | 15.7 / 15A | 21.7 / 20.8A | 26.1 / 25A |
| Max. continuous passthrough | | 35A | 40A |
| Peak power(off grid) | | 2 time of rated power, 10 S | |
| Adjustable power factor | | 0.8 leading to 0.8 lagging | |
| Output frequency and voltage | | 50Hz/45Hz-55Hz; L/N/PE 230V/ 195.5V-253V, 240V/204V-264V | |
| Grid type | | Split phase | |
| THDi | | <3% (of nominal power) | |
| DC current injection | | <0.5% In | |
| Efficiency | | | |
| Max. efficiency | | 97.60% | |
| European efficiency | | 97.00% | |
| MPPT efficiency | | 99.90% | |
| Protection | | | |
| Integrated | | PV Input Lightning Protection, Anti-islanding Protection, PV String Input Reverse Polarity Protection, Insulation Resistor Detection, Residual Current Monitoring Unit, Output Over Current Protection, Output Shorted Protection, Surge protection | |
| Surge protection | | DC Type II/AC Type III | |
| General | | | |
| Dimensions(W*H*D) | | 12.99*17.05*9.37 inch (330*433*238mm) | |
| Weight | 30.9lb (14kg) | | 33.1lb (15kg) |
| Ingress protection | | IP65 | |
| Noise level | | <30dB | |
| Cooling type | | Passive cooling | |
| Operating temperature | | -49°F~-140°F (-45~60°C), >113°F (45°C) derating | |
| Installation method | | Wall-mounted | |
| Communication interface | | RS485; CAN | |
| Warranty | | 5 years | |
| Certification | | AS/NZS 4777.2:2020, IEC/EN 62109-1, IEC/EN 62109-2, IEC/EN 61000-6-1, IEC/EN 61000-6-3, IEC/EN 61000-3-2, IEC/EN 61000-3-3, | |

iHome-INV-L1H04 Series Single(EU)

Single Phase Hybrid Inverter

The Chelion iHome-INV-L1H04 Series of hybrid energy storage inverter comes in a smaller and lighter form than its predecessor does. Its advanced design maximizes energy flexibility. Compatible with both on-and-off-grid PV systems, it can intelligently balance use from the grid or battery to ensure energy consumption is always within economic or user-defined thresholds.



-  DC couple and AC couple to retrofit existing solar system
-  6 time periods for battery charging/discharging
-  Up to 16 inverters in parallel even under off-grid condition
-  IP65 and fanless design with a long lifespan
-  Flexible applications and multiple energy sources input
-  Built-in UPS function with 4ms automatic switching time

| Items | iHome-INV3.6K-L1H04 | iHome-INV5K-L1H04 | iHome-INV6K-L1H04 |
|--------------------------------------|---------------------|---|-------------------|
| DC Input (PV) | | | |
| Recommended Max. PV input power | 4.68kW | 6.5kW | 7.8kW |
| Max. PV input voltage | | 500Vdc | |
| Max. PV input current | | 13+13A | |
| Max. short current | | 17+17A | |
| No. of MPPT / Strings per MPPT | | 2 / 1 | |
| Full load DC voltage range | | 300~425Vdc | |
| MPPT voltage range | | 150~425Vdc | |
| Starting voltage | | 125Vdc | |
| DC Input (BAT) | | | |
| Battery type | | Lead-acid or Li-Ion | |
| Battery voltage range | | 40~60Vdc | |
| Max. charge / discharge current | 90A | 120A | 135A |
| External temperature sensor | | Yes | |
| Charging curve | | 3 Stages / Equalization | |
| Charging strategy for Li-ion battery | | Self-adaption to BMS | |
| AC Output | | | |
| Rated AC output and UPS power | 3.6kW | 5.0kW | 6.0kW |
| Max. AC output and UPS power | 3.96kW | 5.5kW | 6.6kW |
| Rated AC current | 16.4 / 15.7A | 22.7 / 21.7A | 27.3 / 26.1A |
| Max. AC current | 18 / 17.2A | 25 / 23.9A | 30 / 28.7A |
| Max. continuous passthrough | | 35A | 40A |
| Peak power(off grid) | | 2 time of rated power, 10 S | |
| Adjustable power factor | | 0.8 leading to 0.8 lagging | |
| Output frequency and voltage | | 50/60Hz; L/N/PE 220/230Vac (single phase) | |
| Grid type | | single phase | |
| THDi | | <3% (Linear load<1.5%) | |
| Efficiency | | | |
| Max. efficiency | | 97.60% | |
| European efficiency | | 96.50% | |
| MPPT efficiency | | 99.90% | |
| Protection | | | |
| Integrated | | PV Input Lightning Protection, Anti-islanding Protection, PV String Input Reverse Polarity Protection, Insulation Resistor Detection, Residual Current Monitoring Unit, Output Over Current Protection, Output Shorted Protection, Surge protection | |
| Surge protection | | DC Type II/AC Type III | |
| General | | | |
| Dimensions(W*H*D) | | 12.99*22.83*9.13 inch (330*580*232mm) | |
| Weight | | 45.2lb (20.5kg) | |
| Ingress protection | | IP65 | |
| Noise level | | <30dB | |
| Cooling type | | Smart cooling | |
| Operating temperature | | -40°F~-140°F (-40~60°C), >113°F (45°C) derating | |
| Installation method | | Wall-mounted | |
| Communication interface | | RS485; CAN | |
| Warranty | | 5 years | |
| Certification | | UNE 217002: 2020, NTS Type A, UNE217001 IEC/EN 62109-1, IEC/EN 62109-2, IEC/EN 61000-6-1, IEC/EN 61000-6-3, IEC/EN 61000-3-2, IEC/EN 61000-3-3, | |

iHome-S-HD1H01 Series (AU&EU)

Single Phase HV Residential Energy Storage System

Chelion's iHome-S-HD1H01Series is an all-in-one solar and storage solution. The system comes pre-assembled for a seamless installation experience and is complemented with a modular battery design. Each battery module has a built-in DC/DC converter and is pre-optimized to perform at the highest levels safely. In addition, it's more flexible and easily configured in new battery augmentation, allows mixed usage of both new and old batteries and completely utilizes the full battery capacity.



Independent

Built-in EMS function with multi-mode operation
Uninterruptible power supply with a transfer time < 10 ms
Stronger backup power up to 7,800 W



Smart

Smart battery pack management
Active equalization strategy for battery charge and discharge
Intelligent energy management system



Safe

Inherently safe and highly stable LFP with low resistance
Physical segregation and electrical isolation
Integrated modular fire suppression system
Advanced AFCI and online detection of current leakage and insulation degradation



Simple

Standardized Modular design
Easy installation, operation and maintenance
Quick wiring via plug connectors
Flexible system expansibility

| Items | iHome-SXX**/3.6K-HD1H01 | iHome-SXX**/5K-HD1H01 | iHome-SXX**/6K-HD1H01 |
|---|---|-----------------------|-----------------------|
| Inverter model | iHome-INV3.6K-H1H01 | iHome-INV5K-H1H01 | iHome-INV6K-H1H01 |
| Number of Inverter | 1 | | |
| Battery system model | iHome-B5-HD02 | | |
| Number of battery module | 1~8 | | |
| Battery type | LFP(LiFePO ₄) | | |
| System capacity | 5~40kWh | | |
| Rated system power | 3.6kW | 5kW | 6kW |
| Round Trip Efficiency (AC to Battery to AC, at beginning of life) | 89.20% | | |
| Round Trip Efficiency (PV to Battery to AC, at beginning of life) | 90.60% | | |
| Dimension (W*H*D) | 31.49*42.91*9.44inch (800*1090*240mm) (2 battery modules, with foundation) 31.49*11.02*9.13inch (800*280*232mm) (inverter), 31.49*14.96*7.87inch (800*380*200mm) (battery module) | | |
| Weight | 39.68b (18kg) (inverter), 121.25b (55kg) (battery module) | | |
| Ingress protection | IP65 | | |
| Noise level | <25dB@1m | | |
| Cooling type | Passive cooling | | |
| Altitude | 6561 ft (2000m) | | |
| Operating temperature | -4°F~-122°F (-20°C~-50°C) | | |
| Recommended operating temperature | 59°F~-86°F (15~30°C) | | |
| Storage temperature | 14°F~-113°F (-10~45°C) | | |
| Operating humidity | 0~100%RH | | |
| Display | LED & APP | | |
| Installation method | Floor or Wall-mounted (optional) | | |
| Communication interface | Portal-WiFi(standard)/4G(optional), Meter-RS485 | | |
| Certification | AS/NZS 4777.2, NTs type A, UNE 217001, UNE 217002, IEC/EN 62109-1, IEC/EN 62109-2, IEC/EN 61000-6-2, IEC/EN 61000-6-3, IEC/EN 61000-3-11, IEC/EN 61000-3-12, IEC 62040-1, UN38.3 | | |

Hybrid Inverter Specification

| Items | iHome-INV3.6K-H1H01 | iHome-INV5K-H1H01 | iHome-INV6K-H1H01 |
|--------------------------------------|---------------------------|--------------------------|------------------------------|
| DC Input (PV) | | | |
| Recommended Max. PV input power | | | 9.0kWp |
| Max. PV input voltage | | | 580Vdc |
| Max. PV input current | | | 15A+15A |
| Max. short current | | | 18.75A+18.75A |
| No. of MPPT / Strings per MPPT | | | 2 / 1+1 |
| MPPT voltage range | | | 100~550Vdc |
| Starting voltage | | | 100Vdc |
| DC (PV) switch | | | Yes |
| DC Input (BAT) | | | |
| Battery voltage range | | | 360~500Vdc |
| AC Input and Output (On-grid) | | | |
| Rated AC output power | 3.6kW | 5.0kW | 6.0kW |
| Rated AC output voltage | | | 230Vac |
| Grid voltage range | | | 180~270Vac |
| Max. output current | 15.6A | 21.7A | 26.1A |
| Max. input current | 31.2A | 43.4A | 52.2A |
| Rated grid frequency | | | 50/60Hz |
| Grid frequency range | | | 45~55Hz/55~65Hz |
| Power factor | | | >0.99 (rated power) |
| Adjustable power factor | | | 0.8 (leading) ~0.8 (lagging) |
| THDi | | | <3% (rated power) |
| AC Output (Back-up) | | | |
| Rated AC output voltage | | | 230Vac |
| Rated output frequency | | | 50/60Hz |
| Rated output power | 3.6kW | 5.0kW | 6.0kW |
| Peak output power | 4.68kW, 60s 5.4kW, 30s | 6.5kW, 60s 7.5kW, 30s | 7.8kW, 60s |
| Switch time | | | <10ms |
| Efficiency | | | |
| Max. efficiency | | | 97.70% |
| European efficiency | | | 97.10% |

*Specifications are subject to change without prior notice.

**XX indicates the battery capacity, such as 10, 15, or 20.

iHome-S-HD1H02 Series (USA)

Single Phase HV Residential Energy Storage System

Chelion's iHome-S-HD1H02 Series is an all-in-one solar and storage solution. The system comes pre-assembled for a seamless installation experience and is complemented with a modular battery design. Each battery module has a built-in DC/DC converter and is pre-optimized to perform at the highest levels safely. In addition, it's more flexible and easily configured in new battery augmentation, allows mixed usage of both new and old batteries and completely utilizes the full battery capacity, DC couple and AC couple to retrofit existing solar system.



Independent

Built-in EMS function with multi-mode operation
Uninterruptible power supply with a transfer time < 20 ms
Stronger backup power up to 24,000 W
DC couple and AC couple to retrofit existing solar system



Smart

Smart battery pack management
Active equalization strategy for battery charge and discharge
Intelligent energy management system



Safe

Inherently safe and highly stable LFP with low resistance
Physical segregation and electrical isolation
Integrated modular fire suppression system
Advanced AFCI&RSD and online detection of current leakage and insulation degradation



Simple

Standardized Modular design
Easy installation, operation and maintenance
Quick wiring via plug connectors
Flexible system expansibility

| Items | iHome-SXX**/7.6K-HD1H02 | iHome-SXX**/9.6K-HD1H02 | iHome-SXX**/10K-HD1H02 | iHome-SXX**/11.4K-HD1H02 | iHome-SXX**/12K-HD1H02 |
|---|---|-------------------------|------------------------|--------------------------|------------------------|
| Inverter model | iHome-INV7.6K-H1H02 | iHome-INV9.6K-H1H02 | iHome-INV10K-H1H02 | iHome-INV11.4K-H1H02 | iHome-INV12K-H1H02 |
| Number of Inverter | 1 | | | | |
| Battery system model | iHome-B5-HD01 | | | | |
| Number of battery module | 3-8 | | | | |
| Battery type | LFP(LiFePO4) | | | | |
| System capacity | 15-40kWh | | | | |
| Rated system power | 7.6kW | 9.6kW | 10kW | 11.4kW | 12kW |
| Peak system power | 15.2kW, 10s | 19.2kW, 10s | 20kW, 10s | 22.8kW, 10s | 24kW, 10s |
| Round Trip Efficiency (AC to Battery to AC, at beginning of life) | 88.70% | | | | |
| Round Trip Efficiency (PV to Battery to AC, at beginning of life) | 90.00% | | | | |
| Dimension (W*H*D) | 31.49*80.51*9.45inch (800*2045*240mm) (4 battery modules, with foundation) 31.49*17.72*7.87inch (800*450*200mm) (inverter), 31.49*14.96*7.87inch (800*380*200mm) (battery module) | | | | |
| Weight | 77.16b (35kg) (inverter), 121.25b (55kg) (battery module) | | | | |
| Enclosure type | NEMA Type 3R | | | | |
| Noise level | <40dB@1m | | | | |
| Cooling type | Passive cooling | | | | |
| Altitude | ≤6561 ft (2000m) | | | | |
| Operating temperature | -4°F~122°F (-20~50°C) | | | | |
| Recommended operating temperature | 59°F~86°F (15~30°C) | | | | |
| Storage temperature | 14°F~113°F (-10~45°C) | | | | |
| Operating humidity | 0~100%RH | | | | |
| Display | LED+APP | | | | |
| Installation method | Floor or Wall-mounted (optional) | | | | |
| Communication interface | Portal-WiFi (standard)/4G (optional), Meter-RS485, EMS-RS485 (sunspec) | | | | |
| Certification | CSA C22.2, HECO SRD-IEEE-1547.1, FCC Part 15 Class B, IEEE1547, IEEE1547.1, IEEE2030.5, UL1741, UL1699B, UL 1998, CEC, UL9540, UL9540A, UL1973, IEC 60730, UN38.3, | | | | |

Hybrid Inverter Specification

| Items | iHome-INV7.6K-H1H02 | iHome-INV9.6K-H1H02 | iHome-INV10K-H1H02 | iHome-INV11.4K-H1H02 | iHome-INV12K-H1H02 |
|--------------------------------------|---|---------------------|--------------------|----------------------|--------------------|
| DC Input (PV) | | | | | |
| Recommended Max. PV input power | 18kWp | | | | |
| Max. PV input voltage | 500Vdc | | | | |
| Max. PV input current | 15A+15A+15A+15A (30A+30A) | | | | |
| Max. short current | 18.75A+18.75A+18.75A+18.75A (37.5A+37.5A) | | | | |
| No. of MPPT / Strings per MPPT | 4 / 1+1+1,2 / 2+2 | | | | |
| MPPT voltage range | 100-500Vdc | | | | |
| Starting voltage | 125Vdc | | | | |
| DC (PV) switch | Yes | | | | |
| DC Input (BAT) | | | | | |
| Battery voltage range | 360-500Vdc | | | | |
| AC Input and Output (On-grid) | | | | | |
| Rated AC output power | 7.6kW | 9.6kW | 10kW | 11.4kW | 12kW |
| Rated AC output voltage | 240Vac | | | | |
| Grid voltage range | 211.2~264Vac | | | | |
| Max. output current | 31.7A | 40A | 41.7A | 47.5A | 50A |
| Max. ioutput current | 63.4A | 80A | 83.4A | 95A | 100A |
| Rated grid frequency | 60Hz | | | | |
| Grid frequency range | 55-65Hz | | | | |
| Power factor | >0.99 (rated power) | | | | |
| Adjustable power factor | 0.8 (leading) ~0.8 (lagging) | | | | |
| THDi | <3 % (rated power) | | | | |
| Over current protection device | 125A breaker | | | | |
| Max. supply fault current | 5kA | | | | |
| AC Input (Generator) | | | | | |
| Rated AC current | 50A | | | | |
| Rated AC output power | 12kW | | | | |
| Over current protection device | 63A breaker | | | | |
| Max. supply fault current | 5kA | | | | |
| AC Output (Back-up) | | | | | |
| Rated AC output voltage | 240Vac/120Vac 2W/N/PE, Split Phase | | | | |
| Rated output frequency | 60Hz | | | | |
| Rated output power | 7.6kW | 9.6kW | 10kW | 11.4kW | 12kW |
| Peak output power | 15.2kW, 10s | 19.2kW, 10s | 20kW, 10s | 22.8kW, 10s | 24kW, 10s |
| Peak output current | 63.3A, 10s | 80A, 10s | 83.4A, 10s | 95A, 10s | 100A, 10s |
| Switch time | <20ms (without parallel), <300ms (parallel) | | | | |
| Over current protection device | 63A breaker | | | | |
| Max. supply fault current | 5kA | | | | |
| Support the unbalanced load | Yes | | | | |
| Efficiency | | | | | |
| Max. efficiency | 97.50% | | | | |
| CEC efficiency | 96.80% | | | | |

*Specifications are subject to change without prior notice.

**XX indicates the battery capacity, such as 10, 15, or 20.

iHome-S-HD3H01 Series (EU)

Three Phase HV Residential Energy Storage System

Chelion's iHome-S-HD3H01 Series is an all-in-one solar and storage solution. The system comes preassembled for a seamless installation experience and is complemented with a modular battery design. Each battery module has a built-in DC/DC converter and is preoptimized to perform at the highest levels safely. In addition, it's more flexible and easily configured in new battery augmentation, allows mixed usage of both new and old batteries and completely utilizes the full battery capacity.



- 
Independent
 Built-in EMS function with multi-mode operation
 Uninterruptible power supply with a transfer time < 10 ms
 Stronger backup power up to 20,000 W
- 
Smart
 Smart battery pack management
 Active equalization strategy for battery charge and discharge
 Intelligent energy management system
- 
Safe
 Inherently safe and highly stable LFP with low resistance
 Physical segregation and electrical isolation
 Integrated modular fire suppression system
 Advanced AFCI and online detection of current leakage and insulation degradation
- 
Simple
 Standardized Modular design
 Easy installation, operation and maintenance
 Quick wiring via plug connectors
 Flexible system expansibility

| Items | iHome-SXX**/5K-HD3H01 | iHome-SXX**/6K-HD3H01 | iHome-SXX**/8K-HD3H01 | iHome-SXX**/10K-HD3H01 | iHome-SXX**/12K-HD3H01 |
|---|--|-----------------------|-----------------------|------------------------|------------------------|
| Inverter model | iHome-INV5K-H3H01 | iHome-INV6K-H3H01 | iHome-INV8K-H3H01 | iHome-INV10K-H3H01 | iHome-INV12K-H3H01 |
| Number of Inverter | 1 | | | | |
| Battery system model | iHome-B5-HD03 | | | | |
| Number of battery module | 1~8 | | | | |
| Battery type | LFP(LiFePO4) | | | | |
| System capacity | 5~40kWh | | | | |
| Rated system power | 5kW | 6kW | 8kW | 10kW | 12kW |
| Round Trip Efficiency (AC to Battery to AC, at beginning of life) | 89.40% | | | | |
| Round Trip Efficiency (PV to Battery to AC, at beginning of life) | 90.80% | | | | |
| Dimension (W*H*D) | 31.49*78.54*9.45inch (800*1995*240mm)(4 battery modules, with foundation) 31.49*15.75*7.87inch (800*400*200mm) (inverter), 31.49*14.96*7.87inch (800*380*200mm) (battery module) | | | | |
| Weight | 66.14b (30kg) (inverter), 121.25b (55kg) (battery module) | | | | |
| Ingress protection | IP65 | | | | |
| Noise level | <30dB@1m | | | | |
| Cooling type | Passive cooling | | | | |
| Altitude | ≤6561 ft (2000m) | | | | |
| Operating temperature | -4°F~-122°F (-20~50°C) | | | | |
| Recommended operating temperature | 59°F~86°F (15~30°C) | | | | |
| Storage temperature | 14°F~-113°F (-10~45°C) | | | | |
| Operating humidity | 0~100%RH | | | | |
| Display | LED+APP | | | | |
| Installation method | Floor or Wall-mounted (optional) | | | | |
| Communication interface | Portal-WiFi (standard)/4G (optional), Meter-RS485, EMS-RS485 (sunspec) | | | | |
| Certification | IEC/EN 62109-1, IEC/EN 62109-2, IEC/EN 61000-6-1, IEC/EN 61000-6-2, IEC/EN 61000-6-3, EC/EN 61000-6-4, IEC 62619, IEC 60730, UN38.3 | | | | |

Hybrid Inverter Specification

| Items | iHome-INV5K-H3H01 | iHome-INV6K-H3H01 | iHome-INV8K-H3H01 | iHome-INV10K-H3H01 | iHome-INV12K-H3H01 |
|--------------------------------------|---|-------------------|-------------------|--------------------|--------------------|
| DC Input (PV) | | | | | |
| Recommended Max. PV input power | 23kWp | | | | 29kWp |
| Max. PV input voltage | | | 1000Vdc | | |
| Max. PV input current | 16A+16A | | | | 27A+16A |
| Max. short current | 20A+20A | | | | 34A+20A |
| No. of MPPT / Strings per MPPT | 2 / 1+1 | | | | 2 / 2+1 |
| MPPT voltage range | | | 150~900Vdc | | |
| Starting voltage | | | 180Vdc | | |
| DC (PV) switch | | | Yes | | |
| DC Input (BAT) | | | | | |
| Battery voltage range | | | 650~900Vdc | | |
| AC Input and Output (On-grid) | | | | | |
| Rated AC output power | 5kW | 6kW | 8kW | 10kW | 12kW |
| Rated AC output voltage | 380/400Vac, 3W/N/PE | | | | |
| Grid voltage range | 323~418Vac/340~440Vac | | | | |
| Max. output current | 7.9A | 9.6A | 12.8A | 16A | 17.4A |
| Max. input current | 14.4A | 17.4A | 23.2A | 26A | |
| Rated grid frequency | 50/60Hz | | | | |
| Grid frequency range | 45~55Hz/55~65Hz | | | | |
| Power factor | >0.99 (rated power) | | | | |
| Adjustable power factor | 0.8 (leading) ~0.8(lagging) | | | | |
| THDi | <3% (rated power) | | | | |
| AC Output (Back-up) | | | | | |
| Rated AC output voltage | 380/400Vac 3W/N/PE | | | | |
| Rated output frequency | 50/60Hz | | | | |
| Rated output power | 5kW | 6kW | 8kW | 10kW | 12kW |
| Peak output power | 12kW, 60s | | | | 20kW, 60s |
| Peak output current | 18.2A, 60s | | | | 30.4A, 60s |
| Switch time | <10ms (without parallel), <300ms (parallel) | | | | |
| Support the unbalanced load | Yes | | | | |
| Efficiency | | | | | |
| Max. efficiency | 98.30% | | | | |
| European efficiency | 97.50% | | | | |

*Specifications are subject to change without prior notice.

**XX indicates the battery capacity, such as 10, 15, or 20.

iHome-B5-HDxx Series

Battery with DC/DC Converter

Chelion's iHome-B5-HD01-03 Series is a top-class lithium battery module. There is a built-in DC/DC converter in the module that is preoptimized to perform most safely. The DC/DC converter facilitates module maintenance and battery replacement. It is flexible to add new batteries in the future without causing the "Buckets effect". And it is able to make the most of battery capacity.



-  Built-in DC/DC
-  More available capacity in the life cycle
-  Flexible expansion
-  Excellent safety and optimization performance

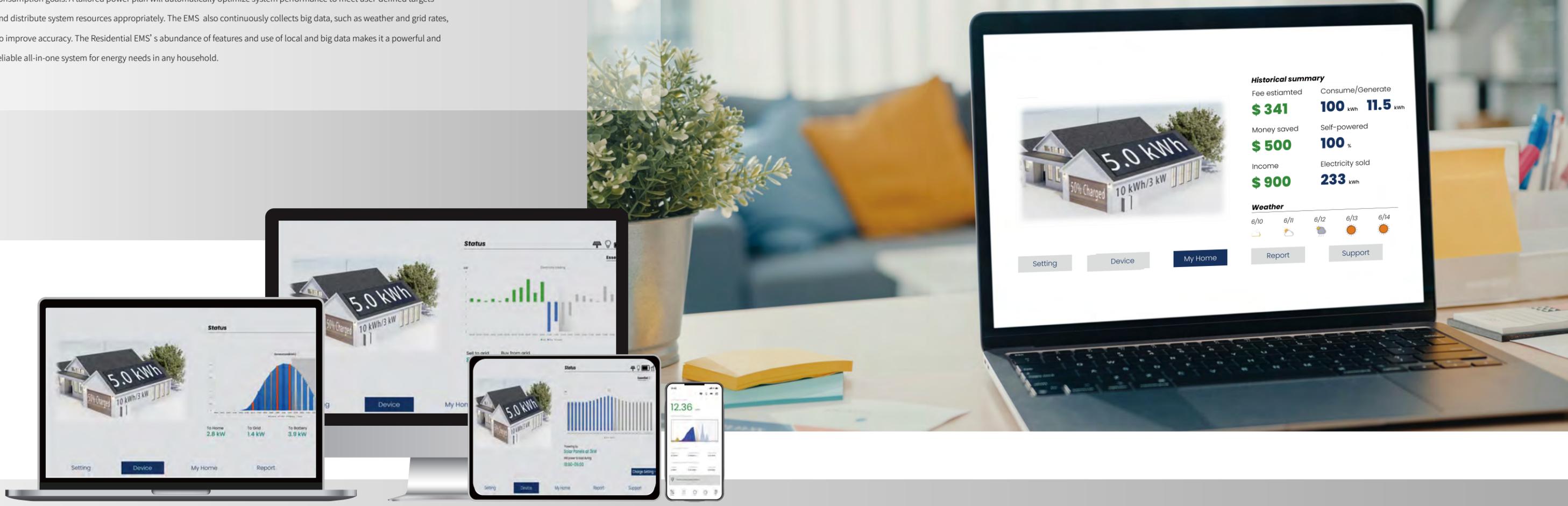
| Items | iHome-B5-HD01 (USA) | iHome-B5-HD02 (AU&EU) | iHome-B5-HD03(EU) |
|-----------------------------------|---------------------------------------|---|------------------------------|
| Battery type | LFP | | |
| Energy capacity | 5kWh | | |
| Scalability | 8 | | |
| Scalable capacity range | 5~40kWh | | |
| DOD | 100% | | |
| Rated power | 2.5kW | 4kW | 4kW |
| Voltage range | 360~500Vdc | 360~500Vdc | 650~900Vdc |
| Max. charge current | 6.94A | 11.11A | 6.15A |
| Max. discharge current | 6.94A | 11.11A | 6.15A |
| | 8.3A, 10s | 13.33A, 10s | 7.38A, 10s |
| Dimensions(W*H*D) | 31.49*14.96*7.87inch (800*380*200mm) | | |
| Weight | 121.25lb(55kg) | | |
| Cooling type | Passive cooling | | |
| Altitude | ≤6561 ft (2000m) | | |
| Operating temperature | -4°F~122°F (-20~50°C) | | |
| Recommended operating temperature | 59°F~86°F (15~30°C) | | |
| Storage temperature | 14°F~113°F (-10~45°C) | | |
| Humidity | 0~100%RH | | |
| Display | LED | | |
| Communication interface | RS485, CAN | | |
| Topology | Isolated | | |
| Connection method | Floor or Wall mounted (optional) | | |
| Certification | UL 1973, UL 9540A, IEC 60730, UN 38.3 | IEC 62619, IEC 60730, IEC 62040-1, UN38.3 | IEC 62619, IEC 60730, UN38.3 |

*Specifications are subject to change without prior notice.

Chelion Residential EMS

Residential Energy Storage System

Chelion's Residential EMS is an all-round intelligent system designed to monitor variables and meet electric or financial consumption goals. A tailored power plan will automatically optimize system performance to meet user-defined targets and distribute system resources appropriately. The EMS also continuously collects big data, such as weather and grid rates, to improve accuracy. The Residential EMS's abundance of features and use of local and big data makes it a powerful and reliable all-in-one system for energy needs in any household.



-  User-defined energy goals and timeline periods can be set
-  Will continuously adapt the energy profile to identify energy saving opportunities
-  Connects to a wide range of existing modules and infrastructure
-  Provides recommendations to enhance longevity and profitability
-  Optimized performance by using local and big data
-  Integrated management and diagnostic