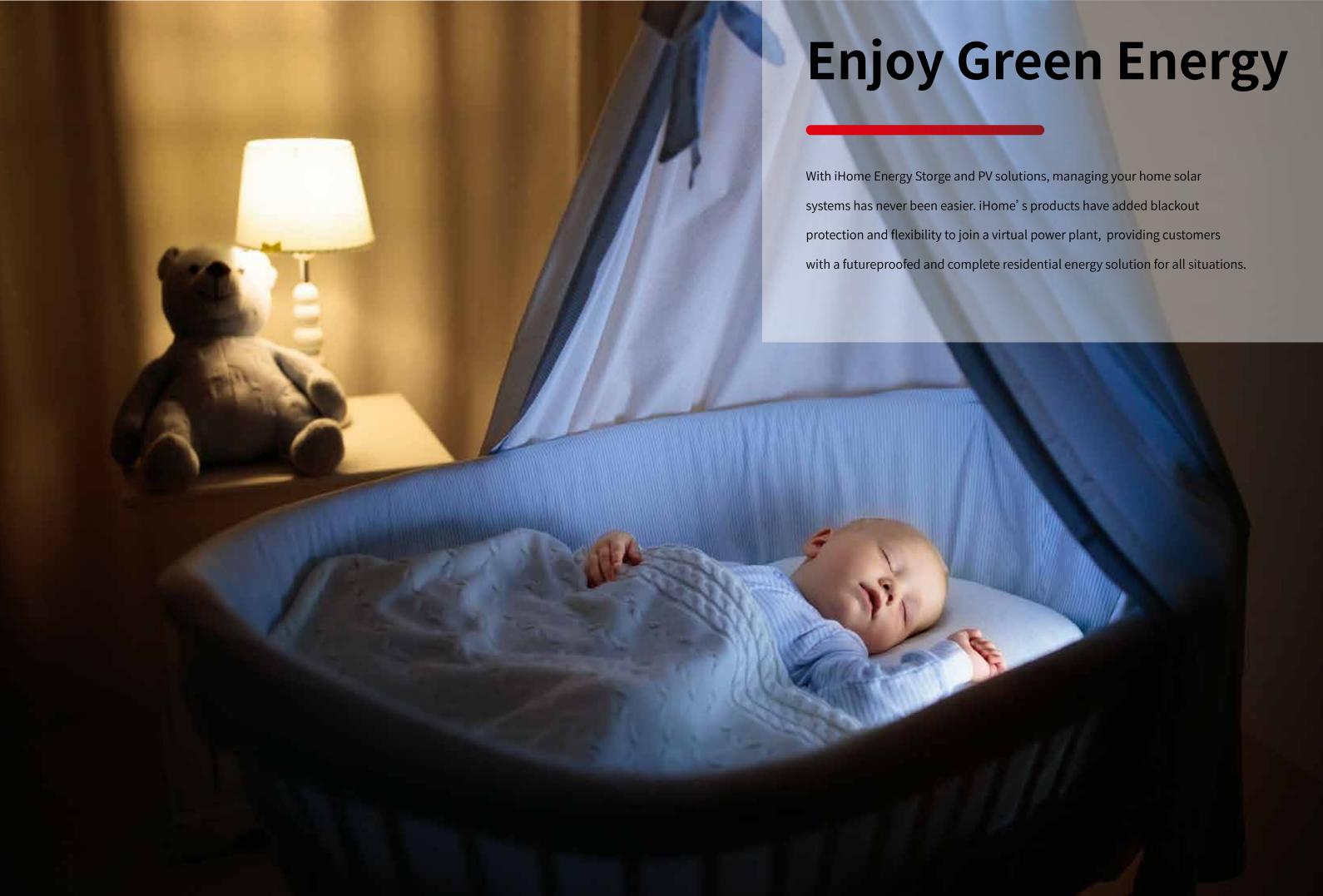


● Shanghai ● Suzhou ● Xi'an ● Hong Kong ● Tokyo ● Brisbane ● Madrid ● Athens ● Silicon Vally





# **Easy**

Easy installation

Easy O&M

Easy capacity expansion

#### **Smart**

Smart energy management

Automatic back-up switch

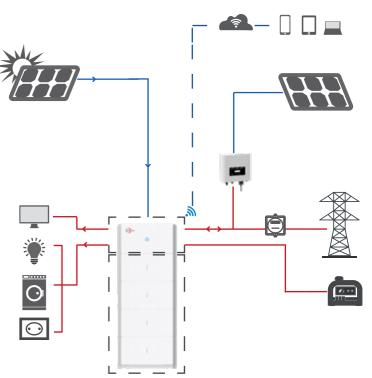
Intelligent monitoring

# Investable

Reliable Power Protection

More flexible application

Long Service Life and more available capacity



# iHome-B6.5-L01 Series

## 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.





Top-class lithium iron phosphate battery with a long lifespan



Easy installation and capacity expansion



Automatically recognize modules



Multiple safety protection measures

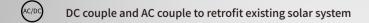
Items	iHome-B6.5-L01	
Battery type	LFP(LiFePO4)	
Energy capacity	6.5kWh	
Cell configuration in pack	16S2P	
Total capacity pack	128Ah	
DOD	94.50%	
Rated capacity	118Ah	
Rated energy	6.0kWh	
Rated voltage	51.2V	
Voltage range	44.8~57.6V	
Max. charge / discharge current	104.2A	
Max. charge / discharge power	5kW	
Peak charge / discharge power(@3S)	6.9kW	
Dimensions(W*H*D)	18.7*30.12*5.71inch (475*765*145mm)	
Weight	$127.9 \pm 2.2$ lb ( $58 \pm 1$ kg)	
Operating temperature	-14°F~122°F (-10~50°C)	
Storage conditions 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	

# iHome-INV-L1H04 Series Single

## Single Phase Hybrid Inverter

The Chelion iHome-INV-L1H04 Series of hybrid energy storage inverter comes in a smaller and lighter form than it's 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.





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

DC In			
DC III	put (PV)		
4.68kW	6.5kW	7.8kW	
500Vdc			
13+13A			
17+17A			
2/1			
300~425Vdc			
150~425Vdc			
125Vdc			
DC Inp	ut (BAT)		
	Lead-acid or Li-lon		
	40~60Vdc		
90A	120A	135A	
	Yes		
	3 Stages / Equalization		
	Self-adaption to BMS		
AC C	utput		
3.6kW	5.0kW	6.0kW	
3.96kW	5.5kW	6.6kW	
16.4 / 15.7A	22.7 / 21.7A	27.3 / 26.1A	
18 / 17.2A	25 / 23.9A	30 / 28.7A	
35 <i>A</i>		40A	
	2 time of rated power, 10 S		
!			
_ · ·			
	<3% (Linear load<1.5%)		
Effic	iency		
	97.60%		
Prot	ection		
PV Input Lightning Protection	Anti-islanding Protection, PV String Input	t Reverse Polarity Protection	
Insulation Resistor Detection, Residual Current Monitoring Unit, Output Over Current Protection,			
Co			
Ge			
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	•		
	90A  AC O 3.6kW 3.96kW 16.4 / 15.7A 18 / 17.2A  Span  Effic  Prote  PV Input Lightning Protection Insulation Resistor Detection O  Gel	13+13A 17+17A 2 / 1 300~425Vdc 150~425Vdc 150~425Vdc 125Vdc  DC Input (BAT)  Lead-acid or Li-lon 40~60Vdc 90A 120A Yes 3 Stages / Equalization Self-adaption to BMS  AC Output  3.6kW 5.0kW 3.96kW 5.5kW 16.4 / 15.7A 22.7 / 21.7A 18 / 17.2A 25 / 23.9A  35A  2 time of rated power, 10 S 0.8 leading to 0.8 lagging 50/60Hz; L/N/PE 220/230Vac (single phase) single phase <3% (Linear load<1.5%)  Efficiency  97.60% 96.50% 99.90%  Protection PV Input Lightning Protection, Anti-islanding Protection, PV String Input	

# iHome-S-HD1H01 Series

## 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 additon, 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



#### 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



#### Smart

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



#### 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 <sub>4</sub> )		
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)	31.4	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	39.68b (18kg) (inverter), 121.25b (55kg) (battery module)		
ngress 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	Poi	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		
	Hybrid Inverter Specification			
Items	iHome-INV3.6K-H1H01	iHome-INV5K-H1H01	iHome-INV6K-H1H01	

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-B5-HDxx Series**

## Battery with DC/DC Converter

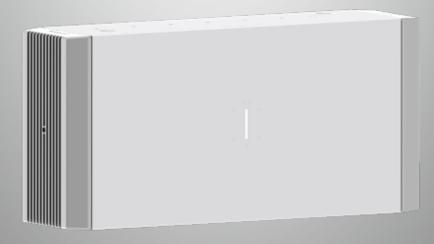
Chelion's iHome-B5-HD01-03 Series is a top-class lithium battery module. There is

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-HD02	
Battery type	LFP	
Energy capacity	5kWh	
Usable capacity	5kWh	
Scalability	8	
Scalable capacity range	5~40kWh	
DOD	100%	
Rated power	4kW	
Voltage range	360~500Vdc	
Max. charge current	11.11A	
	11.11A	
Max. discharge current	13.33A, 10s	
Dimensions(W*H*D)	31.5*15*7.9inch (800*380*200mm)	
Weight	121.3lb(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	IEC 62619: 2022, IEC 60730, IEC 62040-1, UN38.3	
*Specifications are subject to change without prior	notice.	

# Chelion Residential Emergy Storage System Whether is independently the unand round minister as seal whether a peace from the contract of the



User-defined energy goals and timeline periods can be set



Connects to a wide range of existing modules and infrastructure



Optimized performance by using local and big data

Will continuously adapt the energy profile to identify energy saving opportunities

Provides recommendations to enhance longevity and profitability

Integrated management and diagnostic

