

# Energy Storage Solutions Re-Defined

Residential Energy Storage Solutions

**Chelion America** 

CHELION.US

# Enjoy Green Energy

Chellon

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 future proofed and complete residential energy solution for all situations.

### Residential Energy Storage Solutions



#### Safety

Lithium iron phosphate, the safest chemistry of all lithium battery types



#### Reliability

Superb performance and long lifespan

- Outdoor
- AFCI & Rapid Shutdown
- 4 MPPTs



#### Compatibility

Compatible with both new installations and retrofits (AC- or DC-coupled)



#### **Multi-Functionality**

Multiple operation modes available

- 24/7 Monitoring
- WIFI Module Integrated

iHome Series

#### **Installer Partner Program**

### Join our Residential Installer Program with our proven expertise







Preferred pricing

Strong availability Top-tier energy storage solutions

# Integrated support for our entire installer network



Scan the QR code below to learn more, and sign up for the program.

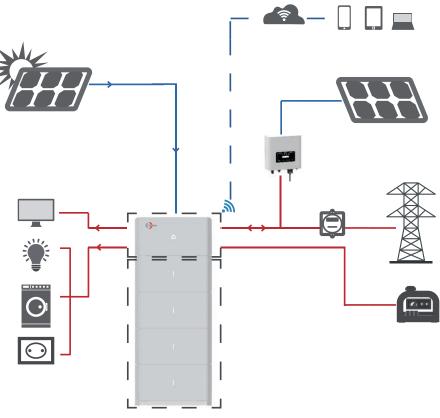




## **Residential Energy Storage System Solutions**

Easy	Smart	Investable
Easy installation	Smart energy management	Reliable power protection
Easy O&M	Automatic back-up switch	More flexible
Easy capacity expansion	Intelligent monitoring	Long service life and more available capacity

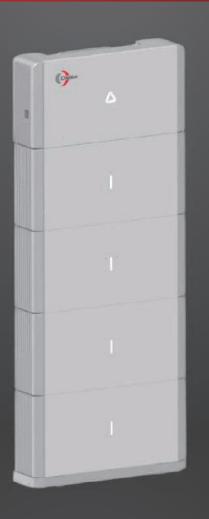




# iHome-S-HD1H02 Series

#### 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 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.





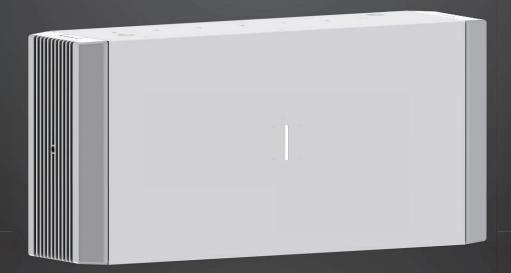
### **Technical Data**

iHome-SXX**/10K-HD1H02 iHome-INV10K-H1H02	iHome-SXX**/11.4K-HD1H02 iHome-INV11.4K-H1H02 1 iHome-B5-HD01 3~8 LFP 5kWh per unit,	iHome-SXX**/12K-HD1H02 iHome-INV12K-H1H02	
In DOMESTING TO BE	1 iHome-B5-HD01 3~8 LFP 5kWh per unit,	11 YON C. 1947 TV-UTUA	
	iHome-B5-HD01 3~8 LFP 5kWh per unit,		
	3~8 LFP 5kWh per unit,		
	LFP 5kWh per unit,		
	5kWh per unit,		
	scalability up to 8 units(40KWh)		
10144			
10kW	11.4kW	12kW	
	24kW, 10s		
	00 700/		
	88.70%		
	90.00%		
	30.00 /0		
21 5100 510 414	(000*2045*240) (4 h - th	the formula (tour)	
31.5*	15*7.9inch (800*380*200mm) (battery modu	ule)	
<40dB			
Passive cooling			
	≪6561 ft (2000m)		
	-4°F~122°F (-20~50°C)		
	· · · · ·		
0~100%RH			
	LED+APP		
Portal-WiFi (standard)/4G (optional), Meter-R5485, EMS-R5485 (sunspec)			
UL9540, UL9540,	A,UL1973, UL1699B, UL1998,UL60730, UL17	41 SA,UN38.3,	
Hybrid Inverter Specification			
	iHome-INV11.4K-H1H02	iHome-INV12K-H1H02	
DC Input (PV)			
	18kWp		
	500Vdc		
18			
	100~500Vdc		
	125Vdc		
	Yes		
DC Input (BAT)			
,	360~500Vdc		
AC Innut and Output (On and)			
TOKM		12kW	
	240Vac		
	211.2~264Vac		
41.7A	47.5A	50A	
	>0.99 (Continuous power)		
	0.85 (leading) ~0.85 (lagging)		
	5KA		
10kW	11.4kW	12kW	
	63A breaker		
AC Output (Pools up)	0.01		
Ac Output (Back-up)	2401/22/1201/22 201/21/25 22 12 21		
	60Hz		
10kW	11.4kW	12kW	
	24kW, 10s		
100A, 10s			
	<20ms (without parallel), <300ms (parallel)		
<			
<	63A breaker		
<			
•	63A breaker 5kA		
	63A breaker		
< Efficiency	63A breaker 5kA Yes		
	63A breaker 5kA		
	31. 31.5*. 77.2lb ( Portal-WiFi (star IEEE1547, IEEE1547, UL9540, UL9540, Hybrid Inverter Specification iHome-INV10K-H1H02 DC Input (PV) 10 AC Input and Output (On-grid) 10kW 41.7A 41.7A	Passive cooling   <	

# **iHome-B5-HD Series**

#### **Battery with DC/DC Converter**

Chelion's iHome-B5-HD 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.





Flexible expansion



Built-in DC/DC



More available capacity in the life cycle



Excellent safety and optimization performance

## **Technical Data**

Items	iHome-B5-HD01	
Battery type	LFP	
Energy capacity	5kWh	
Usable capacity	5kWh	
Scalability	8	
Scalable capacity range	5~40kWh	
DOD	100%	
Continuous power	2.5kW	
Continuous range	360~500Vdc	
Max. charge current	6.94A	
Max. discharge current	6.94A	
	8.3A, 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℃)	
Storage temperature	14°F~113°F (-10~45°C)	
Humidity	0~100%RH	
Display	LED	
Communication interface	R\$485, CAN	
Topology	Isolated	
Connection method	Floor or Wall mounted (optional)	
Certification	UL1973, UL60730, UN38.3	
*UL certification expected in Q1 of 2023	011913, 0100130, 01030.3	
*Specifications are subject to change without pric	r notice.	

# **Chelion Residential EMS**

#### Three Phase HV 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.





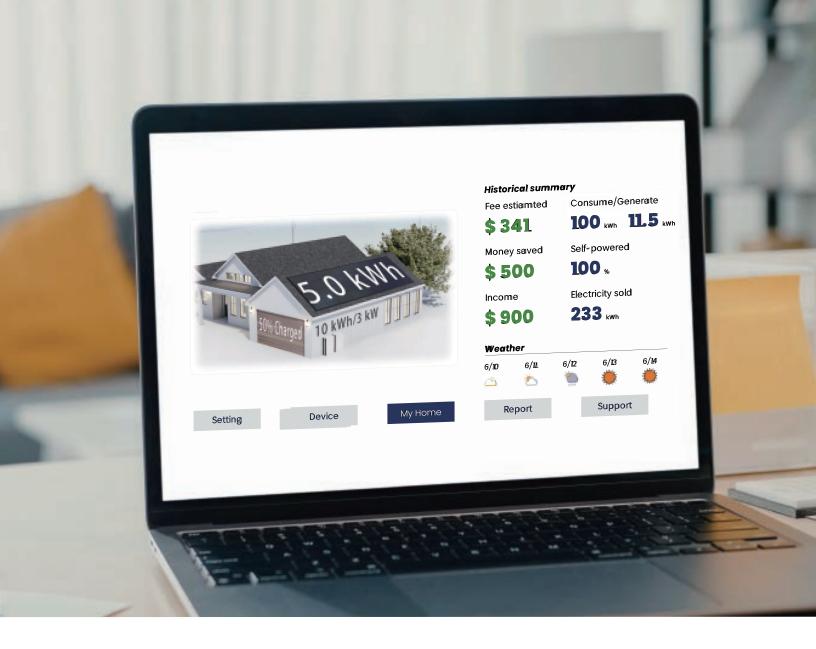
User-defined energy goals and timeline periods can be set



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



## We are a Global Leader in Energy Solutions



www.chelion.us

#### Locations

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