

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.



- AC/DC

DC couple and AC couple to retrofit existing solar system
- 6

6 time periods for battery charging/discharging
- 16

Up to 16 inverters in parallel even under off-grid condition
- IP65

IP65 and fanless design with a long lifespan
- Flexible applications and multiple energy sources input
- Built-in UPS function with 4ms automatic switching time

Technical Data





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 volltage 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, 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-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

Technical Data

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