

iHome-INV-L1H02 Series

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 maximises 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.



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

IP65 IP65 and fanless design with a long lifespan

Flexible applications and alternative energy sources input

Built-in UPS function with 4ms automatic switching time

	iHome-INV5K-L1H02	iHome-INV6K-L1H02
DC Input (PV)		
Recommended Max. PV input power	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	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	5.0kW	6.0kW
Max. AC output and UPS power	5.0kW	6.0kW
Rated AC current	21.7A	26.1A
Max. AC current	23.9A	28.7A
Max. continuous passthrough	35A	40A
Max. apparent power	5000VA	6000VA
Rated Apparent Output Power	5000VA	6000VA
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		
Protection Level	Class I	
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	33.1lb (15kg)	
Ingress protection	IP65	
Country of Manufacture	PRC	
Noise level	<30dB	
Cooling type	Passive 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	
Transformer type	Transformerless	
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,	