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 it's 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.

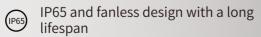


Up to 16 inverters in parallel even under off-grid condition



(16)

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 volltage range	300~425Vdc		
MPPT voltage range	150~425Vdc		
Starting voltage	125Vdc		
	DC Input (BAT)		
Battery type	Lead-acid or Li-lon		
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		
Dutput 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		
		String Input Reverse Polarity 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,		
incerace.	Output Shorted Protection, Surge protection		
Surge protection	DC Type II/AC Type II	II	
	General	2*220	
Dimensions(W*H*D)	12.99*17.05*9.37 inch (330*433*238mm)		
Neight	33.1lb (15kg)		
ngress 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		
nstallation method	Wall-mounted		
Communication interface	RS485; CAN		
Varranty	5 years		
Transformer type	Transformerless	Transformerless	
	AS/NZS 4777.2:2020,		
Certification	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-		

Technical Data