

iHome-INV-HD1H01 Series

Single Phase Hybrid Inverter

The Chelion iHome-INV-HD1H01 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.



UPS with a transfer time < 10 ms
Stronger back-up power up to 7.8kW



Dual-isolation protection design
Integrated modular fire suppression system
Advanced AFCI function and detection of current leakage



Built-in EMS function with multi-mode operation
Active equalisation and utilises strategy for battery charge and discharge



Standardized modular design
Easy installation, operation, maintenance and expand

Items	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	15Adc+15Adc	
Max. short current	18.75Adc+18.75Adc	
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 type	LFP(LiFePO4)	
Battery voltage range	360-500Vdc	
Max. charge / discharge current	25Ad.c	25Ad.c
Max. charge / discharge power	5000W	6000W
External temperature sensor	Yes	
Charging curve	3 Stages / Equalization	
Charging strategy for Li-ion battery	Self-adaption to BMS	
AC Input and Output (On-grid)		
Battery voltage range	360~500Vdc	
Rated AC output power	5.0kW	6.0kW
Rated AC output voltage	230Vac	
Grid voltage range	180~270Vac	
Max. output current	21.7Aac	26.1Aac
Max. input current	43.4Aac	52.2Aac
Rated grid frequency	50Hz	
Grid frequency range	45~55Hz	
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	50Hz	
Rated output power	5.0kW	6.0kW
Peak output power	6.5kW, 60s 7.5kW, 30s	7.8kW, 60s
Switch time	<10ms	
Efficiency		
Max. efficiency	97.70%	
European efficiency	97.10%	
General		
Dimension(W*H*D)	31.49*11.02*9.13inch (800*280*232mm)	
Weight	39.68b (18kg)	
Ingress protection	IP65	
Country of Manufacture	PRC	
Noise level	<25dB@1m	
Cooling type	Passive cooling	
Altitude	6561 ft (2000m)	
Operating temperature	-13°F~-140°F (-25°C~60°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)	
Transformer type	Transformerless	
Communication interface	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	

*Specifications are subject to change without prior notice.