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 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.





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 Active equalisation and utilises strategy for battery charge and discharge



Standardized modular design Easy installation, operation, maintenance and expand

Technical Data

Same Accounts voltage 180-270Vac 180-				
DC Input (PP)	lhama.	::Lama INDEN 111101	311-2-2 INDEX 111101	
Secommended Max. Primput power S.5000	items		IHOME-INVOK-HIHUI	
Max. Primper unvivalege Max. Primper unv	5 1 14 50			
Max. PV Manufacur Max. Short Current Max.		·		
Max. short number Max. plant number Max				
ic. of Marker Sarings per Marker 2 / 1-1 Beller Vollage range 1000/cc Comparison 1000/cc Comparison 1000/cc Comparison Ver Deliney (BAT) FPELLINETON Ballery vollage range 380-5000/dc Ass. charge / discharge power 5000W 6000W Charging carrie 3 Stages / Equilatation Sharings carried 3 Stag	·			
MPT Worker anneg				
International Process Committee Comm		·		
No.				
Settlery type				
Lift	DC (PV) SWITCH			
States	Patton; type	• • •		
Ass. charge / discharge current 25.44.c 25.44.c 600.00				
Ass. charge four-face power S000W S000W S000W Ass. charge four-face person See Se				
Statemal temperature sensor Langing strategy for Li-ion battery Self-adaption to BMS				
therping curve			6000W	
Carrier of Series	·		ali-asia.	
AC Input and Output (On-grid) Side AC Coutput power Side AC Coutput powe		• •		
Safety village range				
Rated AC output voltage 230Vac Loter A Coutput voltage 230Vac Loter AC output voltage 230Vac Ass. Output current 21.7Aac 26.1Aac Ass. Injust current 43.4Aac 50.1Aac Lated grid frequency 50142 50.1Aac Lated grid frequency range 45-5912 60.1Aac Ower factor 0.8 (leading) - 45.8[lagging)	S		v.l.	
Rated AC output voltage 230 vac rid voltage arrage 180 - 270 vac orid voltage arrage 180 - 270 vac dax. input current 22.17aac 26.1Aac dax. input current 43.4Aac 50 vac dated grid frequency 50 vac 50 vac side frequency range 45-55 tb 45-55 tb ower factor 0.8 (leading v. 8/likging) 45-55 tb (big stable power factor) 0.8 (leading v. 8/likging) 45-55 tb (big stable power factor) 0.8 (leading v. 8/likging) 45-55 tb (bit stable power factor) 0.8 (leading v. 8/likging) 45-55 tb (bit stable power factor) AC Output (Back-up) 45-60 kW (bit stable power factor) 50 kW 6.0 kW (bit stable power factor) 6.5				
180-270Vac 18	Rated AC output power			
Asia control teurrent 21.7Aac 26.1Aac Asia				
Max. input current				
Solitar Sol				
A5-55Hz A5-	-			
Sover factor So.99 (rated power) Sole (leading) O.8 (
AC Output (Back-up)	Grid frequency range			
AC Output (Back-up)	Power factor			
AC Output Voltage 230Vac	Adjustable power factor			
Rated AC output voltage 230Vac Rated output frequency 5.0kW 6.0kW valed output power 5.0kW 6.0kW beek output power 6.5kW, 60s 7.8kW, 60s valed output power 7.5kW, 30s 7.8kW, 60s Efficiency Efficiency 97.70% Comeral Dimension(W*H*D) 31.49*11.02*9.13inch (800*280*2332mm) Weight 33.49*11.02*9.13inch (800*280*2332mm) Weight 33.49*11.02*9.13inch (800*280*2332mm) Weight 33.49*11.02*9.13inch (800*280*2332mm) Weight 33.49*11.02*9.13inch (800*280*2332mm) Weight 39.68b (18kg) Country of Manufacture PRC Voice level -25d@@lm Gooling type Passive cooling Ultitude 6561 ft (200mm) Operating temperature 59*F-86*F (15-30*C) Seconded operating temperature 59*F-86*F (15-30*C) Operating humidity 0-100%RH Operating humidity 0-100%RH Operating humidity Transformerless </td <td>THDi</td> <td colspan="3"><3 %(rated power)</td>	THDi	<3 %(rated power)		
Sated output frequency S.O.W. S.O		AC Output (Back-up)		
Solid Control of Schiller Sch	Rated AC output voltage	230Vac		
South Sout	Rated output frequency	50Hz		
Reak output power 6.5kW, 60s 7.5kW, 30s 7.8kW, 60s SWINGTH INTERIOR OF TRANSPORT	Rated output power	5.0kW	6.0kW	
Second S		6.5kW, 60s	Zalw co	
Second S	Peak output power	7.5kW, 30s	7.8KW, 6US	
Max. efficiency 97.70%	Switch time	<10m:	s	
Prince P	Efficiency			
Separating temperature Separating temperat	Max. efficiency	97.70%		
Simension(W*H*D) 31.49*11.02*9.13inch (800*280*232mm) Weight 39.68b (18kg) Ingress protection IP65 Country of Manufacture PRC Cooling type Passive cooling Ititude 6561 ft (2000m) Operating temperature 13°F~140°F (-25°C~60°C) Storage temperature 59°F~86°F (15~30°C) Operating humidity 0-100%RH Display LED & APP Installation method Floor or Wall-mounted (optional) Transformer type Transformerless Communication interface Portal-WiFi (standard)/46 (optional), Meter-RS485 AS/NZS 4777.2, NTs type A, UNE 217002, IEC/EN 61000-6-3, IEC/EN 61000-3-12 IEC/EN 62109-1, IEC/EN 62109-2, IEC/EN 61000-6-3, IEC/EN 61000-3-11, IEC/EN 61000-3-12 IEC/EN 62109-1, IEC/EN 62109-2, IEC/EN 61000-6-3, IEC/EN 61000-3-11, IEC/EN 61000-3-12 IEC/EN 62109-1, IEC/EN 62109-2, IEC/EN 61000-6-3, IEC/EN 61000-3-11, IEC/EN 61000-3-12 IEC/EN 62109-1, IEC/EN 62109-2, IEC/EN 61000-6-3, IEC/EN 61000-3-11, IEC/EN 61000-3-12 IEC/EN 62109-1, IEC/EN 62109-2, IEC/EN 61000-6-3, IEC/EN 61000-3-11, IEC/EN 61000-3-12 IEC/EN 62109-1, IEC/EN 62109-2, IEC/EN 61000-6-3, IEC/EN 61000-3-11, IEC/EN 61000-3-12 IEC/EN 62109-1, IEC/EN 62109-2, IEC/EN 61000-6-3, IEC/EN 61000-3-11, IEC/EN 61000-3-12 IEC/EN 62109-1, IEC/EN 62109-2, IEC/EN 61000-6-3, IEC/EN 61000-3-11, IEC/EN	European efficiency	97.10%		
Neight 39.68b (18kg) Ingress protection IP65 Country of Manufacture PRC Noise level <25dB@1m Cooling type Passive cooling Cooling type Fassive Cooling Cooling ty		General		
Ingress protection IP65 Country of Manufacture PRC Noise level <25dB@1m Cooling type Passive cooling Nititude 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 Oisplay LED & APP Installation method Floor or Wall-mounted (optional) Transformer type Transformerless Communication interface Portal-WiFi(standard)/4G(optional), Meter-RS485 Certification 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	Dimension(W*H*D)	31.49*11.02*9.13inch (800*280*232mm)		
Country of Manufacture Roise level Cooling type Passive cooling Altitude PRC Passive cooling Fassive cooling	Weight	· · ·		
Asynciation Async	Ingress protection			
Altitude 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 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	Country of Manufacture			
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 AS/NZS 4777.2, NTs type A, UNE 217001, UNE 217002, IEC/EN 62109-1, IEC/EN 62109-2, IEC/EN 61000-6-3, IEC/EN 61000-3-11, IEC/EN 61000-3-12	Noise level			
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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 61000-6-3, IEC/EN 61000-3-11, IEC/EN 61000-3-12	Operating temperature	-13°F~140°F (-25°C~60°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 61000-6-3, IEC/EN 61000-3-11, IEC/EN 61000-3-12		59°F~86°F (15~30°C)		
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Communication interface Portal-WiFi(standard)/4G(optional), Meter-RS485 AS/NZS 4777.2, NTs type A, UNE 217001, UNE 217002, Certification 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	Transformer type	Transformerless		
AS/NZS 4777.2, NTs type A, UNE 217001, UNE 217002, Certification 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	Communication interface	Portal-WiFi(standard)/4G(optional), Meter-RS485		
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.			N 61000-6-3, IEC/EN 61000-3-11, IEC/EN 61000-3-12	
	*Specifications are subject to change without pri	ior notice.		