Haier

Solar Energy Solutions -Panels, Inverters, Batteries

A single platform for residential and commercial solar energy.





Our Brand

Empowering smarter, happier, and healthier living, Haier leads with smart technologies across a range of home appliances. As the top global major appliances brand for over a decade, Haier's products are designed to enable better living through innovation.*



Global Scale

OPERATING IN 160 COUNTRIES



Innovation + Quality

10 R&D CENTRES GLOBALLY



Service + Support

NATIONWIDE SUPPORT



Warranty Protection

BACKED BY TRUSTED WARRANTIES

Brands you can trust

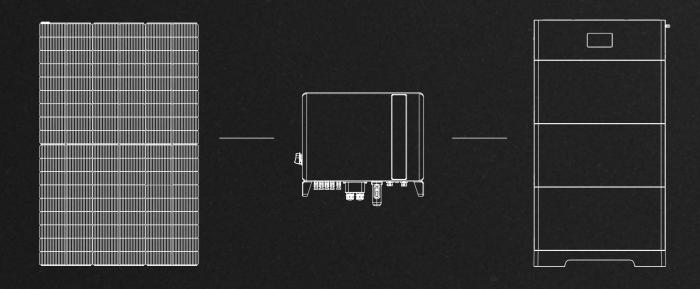
As one of the world's largest brands, Haier provides a comprehensive range of commercial and residential solar products, air conditioning, water heating, and appliances, all designed for an integrated, connected system.

Nahui is an extension of the Haier brand, specialising in solar panels that work together seamlessly with Haier batteries and inverters for maximum efficiency and solar gain. Rigorously tested and with excellent reliability, Nahui and Haier Solar products provide a full-service solar solution for both residential and commercial applications.

^{*} Data source: Euromonitor International Limited; Consumer Appliances 2024ed, % unit share, 2023 volume sales data. Major Appliances category is the sum of dishwashers, home laundry appliances, large cooking appliances, microwaves and refrigeration appliances. Volume sales refers to sales in retail channel, builder merchants and construction channel.

Solar Solutions

Experience a seamless solar solution, offering a unified solar platform tailored to both residential and commercial needs. Haier delivers panels, batteries and inverters from a single supplier, removing the need for multiple partners, warranties and customer care contacts. Backed by Haier's trusted warranties, you can confidently begin your solar journey.



Panels

Panels for both residential and commercial use with stylish options to suit any home or business.

Inverters

Our inverters are designed for high performance, advanced functionality, and reliable three-phase operation.

Batteries

Our solar batteries offer versatile solutions for homes and businesses with easy installation and robust safety features. Providing reliable energy storage for any solar setup.

A single platform

Build a complete solar PV system that meets your design and budget needs by mixing and matching products, all from a single supplier.

Respect for the planet

Help lower your household, commercial, and industrial carbon emissions with solar power, a clean, renewable energy source that preserves environmental quality.

Efficient design

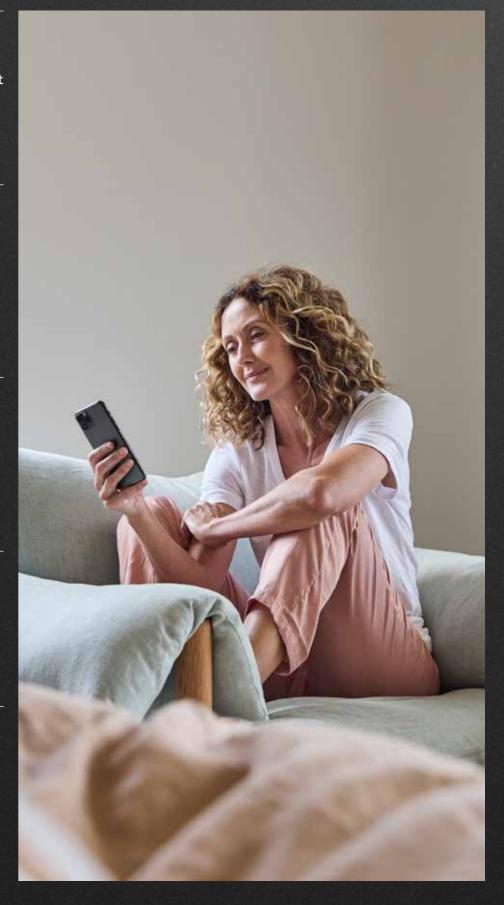
Enjoy consistent performance with a range of products, which combine advanced technology with sleek, thoughtful design.

Connected living

Gain full visibility and monitor your solar energy performance via the Haier-owned Nahui Energy app.

Peace of mind

Rest assured with your solar investment, protected by trusted Haier-backed warranties, and supported by local experts available to assist with any questions or concerns.





Panels

Effective energy production whilst reducing your carbon emissions.



High efficiency

A range of panels that utilise TOPCon, providing higher efficiency, temperature changes, ensuring better performance in low light, reduced power degradation and a higher temperature coefficient.*

Enhanced durability

Built to withstand moisture and long-term reliability. With minimal maintenance required, all panels are covered by Haier-backed warranties providing peace of mind.

Extensive range

Offering a wide range of solar panels to fit different needs and budgets, providing the right balance of cost and performance for homes and businesses.

^{*} Compared to standard PERC technology.

Inverters Batteries

Convert solar energy into usable electricity efficiently with Haier inverters, designed for high performance, advanced functionality, and reliable three-phase operation.



Expandable, flexible solar battery solutions for residential and commercial use, offering easy installation, high efficiency, advanced safety, durable performance, and versatile capacity.



High protection rating

With an IP66 protection rating, all inverters within the range are suitable for installation both indoors and outdoors.

High-voltage Haier inverters include advanced controllers to optimise power output, improve performance in shaded areas, and ensure reliability.

Enhanced energy output Versatile system design

support complex layouts and easy scalability, accommodating diverse roof orientations and configurations.

Generous DC:AC ratio

Advanced inverter models

Even the most compact and economical inverters have a DC:AC ratio of 1.5x, helping customers find the optimal balance of cost vs. performance.

Flexible system

With the ability to connect up to four range modules in a series for up to 20kWh, and three systems in parallel for up to 60kWh. This flexibility allows you to configure your system to meet your specific energy needs.

Weather protected

Haier batteries are rated IP65, meaning they are dust-tight and protected against the elements. You can install them indoors or outdoors with confidence.

Easy installation

Battery ranges boasting large capacities, with the ability to be stacked without wiring, making installation easy. They are scalable, allowing modifications and expansions as your energy needs grow.

DC-DC boost

Haier batteries efficiently increase the voltage of the direct current (DC) electricity they store, making it compatible with a wide range of devices and systems.

Panel Specifications

Model NHO108-410MN Model NHO108-420MN Model NHO108-430MN Model NHO108-440MN Model NHO108-410MNB Model NHO108-420MNB Model NHO108-430MNB Model NHO108-440MNB

Model NHO120-460MNB Model NHO120-470MNB Model NHO120-480MNB Model NHO120-490MNB







NHO108- NHO108- NHO108- NHO108- NHO108- NHO108- NHO108- NHO108- NHO108- NHO120- NHO120

		410MN	420MN	430MN	440MN	410MNB	420MNB	430MNB	440MNB	460MNB	470MNB	480MNB	490MNB
CA number	Units	44085	44087	44089	44091	44162	44163	44164	44165	44166	44167	44168	44169
Total capacity	kW	410	420	430	440	410	420	430	440	460	470	480	490
Features													
Technology		Торсоп											
No of cells					108(12*9)					182	*91	
Туре		White Black											
Dimensions	mm				1722*1	134*30					1903*1	134*30	
Weight	kg				21	1.5					23	3.8	
Front glass			3.2 mm solar glass with anti-reflective surface treatment										
Junction box							IP68 3	diodes					
Frame							Anodized Alu	ıminium Alloy					
Max wind and snow loads							2400Pa	/5400Pa					
Electrical data STC													
Peak power	Pmax	410	420	430	440	410	420	430	440	460	470	480	490
Max power voltage	Vmp	31.13	31.51	31.88	32.24	31.13	31.51	31.88	32.24	34.72	35.05	35.37	35.70
Max power current	Imp	13.17	13.33	13.49	13.65	13.17	13.33	13.49	13.65	13.25	13.41	13.57	13.73
Open circuit voltage	Voc	37.73±3%	38.11±3%	38.49±3%	38.87±3%	37.73±3%	38.11±3%	38.49±3%	38.87±3%	42.05±3%	42.38±3%	42.70±3%	43.03±3%
Short circuit current	Isc	13.91±3%	14.07±3%	14.23±3%	14.39±3%	13.91±3%	14.07±3%	14.23±3%	14.39±3%	13.99±3%	14.15±3%	14.31±3%	14.47±3%
Module efficiency	%	21.00	21.51	22.02	22.54	21.00	21.51	22.02	22.54	21.32	21.78	22.24	22.70
Electrical data NMOT													
Peak power	Pmax	308	316	323	329	308	316	323	331	346	353	361	369
Max power voltage	Vmp	29.06	29.34	29.63	29.89	29.37	29.73	30.08	30.42	32.60	32.94	33.26	33.58
Max power current	Imp	10.61	10.76	10.91	11.07	10.50	10.63	10.75	10.88	10.61	10.73	10.85	10.99
Open circuit voltage	Voc	35.84±3%	36.02±3%	36.56±3%	35.92±3%	36.03±3%	36.39±3%	36.75±3%	37.11±3%	39.94±3%	40.25±3%	40.57±3%	40.89±3%
Short circuit current	Isc	11.23±3%	11.36±3%	11.49±3%	11.63±3%	11.16±3%	11.29±3%	11.42±3%	11.56±3%	11.29±3%	11.42±3%	11.56±3%	11.70±3%
Temperature and max ratings													
Max system voltage	٧						15	000					
Max series fuse rating	Α						2	.5					
Power tolerance							0~+	-3%					
Pmax temp coeff	W/°C						-0.30	0%/°C					
Voc temp coeff	V/°C						-0.25	0%/°C					
Isc temp coeff	A/°C						0.046	5%/°C					
NMOT temp	°C		45±2										
Operating and storage temp	°C						(-40	to 85)					
Packaging data													
Module per pallet							37/p	allet					
Moduleper 20 container							2:	22					
Moduleper 40 container	962							888					
Warranty													
Product workmanship	Years						1	.5					
Power warranty	Years						3	0					
First year degradation	%		1										
Annual power degradation	%				0	.4					0	.4	

Model NHO144-550MN Model NHO144-560MN Model NHO144-570MN Model NHO144-580MN

Model NHO132-670MN Model NHO132-680MN Model NHO132-690MN Model NHO132-700MN





SKU/Model number		NHO144- 550MN	NHO144- 560MN	NHO144- 570MN	NHO144- 580MN	NHO132- 670MN	NHO132- 680MN	NHO132- 690MN	NHO132- 700MN	
CA number	Units	44092	44094	44096	44098	44170	44171	44172	44173	
Total capacity	kW	550	560	570	580	670	680	690	700	
Features										
Technology					Тор	ocon				
No of cells			144(1	2*12)			132(1	12*11)		
Туре					WI	nite				
Dimensions	mm		2278*1	134*35			2384*1	1303*30		
Weight	kg		28	3.4			33	3.9		
Front glass				3.2 mm	solar glass with anti-	reflective surface tre	eatment			
Junction box					IP68 3	diodes				
Frame					Anodized Alu	uminium Alloy				
Max wind and snow loads					2400Pa	/5400Pa				
Electrical data STC										
Peak power	Pmax	550	560	570	580	670	680	690	700	
Max power voltage	Vmp	41.50	41.77	42.07	42.37	39.52	39.92	40.32	40.72	
Max power current	Imp	13.26	13.41	13.55	13.69	16.96	17.04	17.12	17.20	
Open circuit voltage	Voc	50.21±3%	50.47±3%	50.74±3%	51.02±3%	47.42±3%	47.90±3%	48.38±3%	48.86±3%	
Short circuit current	Isc	14.00±3%	14.15±3%	14.31±3%	14.47±3%	17.72±3%	17.80±3%	17.88±3%	17.97±3%	
Module efficiency	%	21.29	21.68	22.07	22.45	21.57	21.90	22.22	22.54	
Electrical data NMOT										
Peak power	Pmax	413	421	429	437	508	516	523	531	
Max power voltage	Vmp	38.99	39.25	39.51	39.77	37.18	37.55	37.93	38.31	
Max power current	Imp	10.61	10.73	10.85	10.97	13.65	13.71	13.78	13.84	
Open circuit voltage	Voc	47.70±3%	47.94±3%	48.20±3%	48.46±3%	44.81±3%	45.27±3%	45.72±3%	46.17±3%	
Short circuit current	Isc	11.30±3%	11.42±3%	11.55±3%	11.68±3%	14.12±3%	14.18±3%	14.25±3%	14.32±3%	
Temperature and max ratings										
Max system voltage	V				15	500				
Max series fuse rating	Α		2	5		30				
Power tolerance					-	-3				
Pmax temp coeff	W/°C		-0.300	0%/°C		-0.240%/°C				
Voc temp coeff	V/°C		-0.250	0%/°C		-0.220%/°C				
Isc temp coeff	A/°C	+0.046%/°C +0.047%/°C								
NMOT temp	°C		45±2							
Operating and storage temp	°C	(-40 to 85)								
Packaging data										
Module per pallet		37/pallet								
Moduleper 20 container		185								
Moduleper 40 container		740 814								
Warranty										
Product workmanship	Years				1	15				
Power warranty	Years	30								
First year degradation	%		1							
Annual power degradation	%	0.4								

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Inverter Specifications

Model HH3P-5KA1/HU Model HH3P-6KA1/HU Model HH3P-8KA1/HU Model HH3P-10KA1/HU



CARUMENT (MINIS) 44174 (MINIS) 44062 (MINIS) 44063 (MINIS) 44061 (MINIS) Total capacity (No. 1962) W 5 6 8 10 Features Processor Processor Connection Connection Play Connecticut Play Max. Input colored V 0 12.26 16.0 16.	SKU/Model number		HH3P-5KA1/HU	HH3P-6KA1/HU	HH3P-8KA1/HU	HH3P-10KA1/HU				
Features Picomection Quick connection plug Connection Quick connection plug Connection Connection Pippuly LED+8luctorth-APP Input sold C(PV) Recommend dams. Pippul de Colspan="4">Pippul de C	CA number	Units	44174	44062	44063	44061				
MC connection MC connection plug AC connection Outdoctoron-plug Connection Display To Dis	Total capacity	kW	5	6	8	10				
### AC connection ### Connection ##	Features									
AC connection Figure Connection Con	PV connection			MC4 co	nnector					
Dipsipy	Battery connection		Quick connection plug							
Proper	AC connection		Quick connection plug							
Recommended max. Pr Pyower kW 8 9.6 12.8 16 Pr Pyower V Secretary of the property of the pr	Display		LED + Bluetooth + APP							
Max. input voltage	Input side DC (PV)									
Rated voltage V Formating and provided pr		kW	8	9.6	12.8	16				
Start-up voltage V Image: Provide the provided of the pr	Max. input voltage	V		10	000					
MPPT voltage range V 4	Rated voltage	V		6	00					
Max. input current A 16A/16A/16A 16A/16A/16A 16A/16A/16A Max. short circuit current A 24A/24A/24A 24A/24A/24A MPPT number 3 3 4 4 Max. input strings number per MPPT 1 1 1 1 1 Battery side Battery type LI - Ion String summer per MPPT Battery type LI - Ion String summer per MPPT Battery type LI - Ion String summer per MPPT Battery type LI - Ion String summer per MPPT String summer per MPPT 1 </td <td>Start-up voltage</td> <td>V</td> <td></td> <td>1</td> <td>60</td> <td></td>	Start-up voltage	V		1	60					
Max. short circuit current A 24A/24A/24A 4 4 MPPT number 3 3 4 4 Max. input strings number per MPPT 1 1 1 1 Battery side Battery type Li - Ion Li - Ion Li - Ion Max. charge / discharge power kW 5 6 8 10 Max. charge / discharge power Max. charge / discharge power A 25 25 50 50 50 So Communication CANTRES 485 TORINGE 485 TOR	MPPT voltage range	V		200	-850					
MPPT number 3 3 4 4 Max. input strings number per MPPT 1 1 1 1 Battery side Battery type LI - Ior Section Se	Max. input current	А	16A/16	5A/16A	16A/16A	/16A/16A				
Max. input strings number per MPPT 1 1 1 Battery stide Battery type LI - US STATE	Max. short circuit current	А	24A/24	1A/24A	24A/24A/24A					
Battery side Li - Ion Battery type Li - Ion Battery voltage range V 120-60VV Max. charge / discharge power kW 5 6 8 10 Communication CAN/XB4S Communication CAN/XB4S Input side AC (Grid) Max. input power kW 7.5 9 12 15 Rated input voltage V 31/N/PE, 380/400V Rated output power kW 5 6 8 10 Back-up switch time 10ms Rated output voltage KW 5 6 8 10 Back-up switch time 10ms Rated output voltage 10ms 10ms 10ms <td>MPPT number</td> <td></td> <td>3</td> <td>3</td> <td>4</td> <td>4</td>	MPPT number		3	3	4	4				
Battery type Li→o Battery voltage range V 120-60V Max. charge / discharge power kW 5 6 8 10 Max. charge / discharge current A 25 25 50 50 Communication CAN/RS 485 Input side AC (Grid) Max. input power kW 7.5 9 12 15 Rated input voltage V 3L/N/PE, 380/400V 22.8 22.8 Rated input frequency Hz 5 6 8 10 10 Output side AC (Back-up) Rated output power kW 5 6 8 10 Back-up switch time Cluster State Sta	Max. input strings number per MPP	Max. input strings number per MPPT		1	1	1				
Battery voltage range V 120-600V Max. charge / discharge power kW 5 6 8 10 Max. charge / discharge current A 25 25 50 50 Communication CAN/RS 485 Input side AC (Grid) Max. input power kW 7.5 9 12 15 Rated input current A 11.4 13.8 18.2 22.8 Rated input voltage V 3L/N/PE, 380/400V Rated output power kW 5 6 8 10 Back-up switch time Rated output voltage KW 5 6 8 10 Rated output voltage SUN/PE, 380/400V S	Battery side									
Max. charge / discharge power kW 5 6 8 10 Max. charge / discharge current A 25 25 50 50 CAN/RS 485 Input side AC (Grid) Max. input power kW 7.5 9 12 15 Rated input current A 11.4 13.8 18.2 22.8 Rated input voltage V 3L/N/PE, 380/400V 2 22.8 Rated input frequency Hz 50/60Hz 3 10 Output side AC (Back-up) 8 10 3 Rated output power kW 5 6 8 10 Back-up switch time <10ms	Battery type			Li-	-ion					
Max. charge / discharge current A 25 25 50 50 Communication CAN/RS 485 Input side AC (Grid) Max. input power kW 7.5 9 12 15 Rated input current A 11.4 13.8 18.2 22.8 Rated input voltage V 3L/N/PE, 380/400V Rated output power kW 5 6 8 10 Back-up switch time Rated output voltage Rated output voltage SI/N/PE, 380/400V Rated output voltage Rated output voltage SI/N/PE, 380/400V Rated output voltage SI/N/PE, 380/400V Rated output voltage SI/N/PE, 380/400V Rated output current 7.6A/7.2A 9.1A/8.7A 12.2A/11.5A 15.2A/14.4A	Battery voltage range	V		120-	-600V					
Communication CAN/R 3485 Input side AC (Grid) Max. input power kW 7.5 9 12 15 Rated input current A 11.4 13.8 18.2 22.8 Rated input frequency Hz 50/60Hz Cutput side AC (Back-up) Rated output power kW 5 6 8 10 Back-up switch time cluster cluster 3L/N/PE, 380/400V Rated output voltage 3L/N/PE, 380/400V Rated frequency 7.6A/7.2A 9.1A/8.7A 12.2A/11.5A 15.2A/14.4A	Max. charge / discharge power	kW	5	6	8	10				
Input side AC (Grid) Max. input power KW 7.5 9 12 15 Rated input current A 11.4 13.8 18.2 22.8 Rated input voltage V 3L/N/PE, 380/400V Rated input frequency Hz 50/6Hz Output side AC (Back-up) Rated output power KW 5 6 8 10 Back-up switch time \$10/MS \$3L/N/PE, 380/400V Rated output voltage \$10/MS \$3L/N/PE, 380/400V Rated frequency \$10/MS \$3L/N/PE, 380/400V Rated output voltage \$11/MS \$3L/N/PE, 380/400V Rated output voltage \$11/MS \$3L/N/PE, 380/400V Rated output current \$1.6A/7.2A \$1.6A/7.2A \$1.2A/11.5A \$1.5A/14.4A \$1.5A/14.4A \$1.5A/11.5A \$1.5A/14.4A \$1.5A/14.4A \$1.5A/11.5A \$1.5A/14.4A \$1.5A/14.4A \$1.5A/14.4A \$1.5A/14.4A \$1.5A/14.4A \$1.5A/14.4A \$1.5A/14.4A \$1.5A/14.4A	Max. charge / discharge current	А	25	25	50	50				
Max. input power kW 7.5 9 12 15 Rated input current A 11.4 13.8 18.2 22.8 Rated input voltage V \$3L/N/PE, 380/400V \$	Communication			CAN/	RS 485					
Rated input current A 11.4 13.8 18.2 22.8 Rated input voltage V 3L/N/PE, 380/400V	Input side AC (Grid)									
Rated input voltage V 3L/N/PE, 380/400V Rated input frequency Hz 50/60Hz Output side AC (Back-up) Rated output power kW 5 6 8 10 Back-up switch time <10ms	Max. input power	kW	7.5	9	12	15				
Rated input frequency Hz 50/60Hz Output side AC (Back-up) 8 10 Rated output power kW 5 6 8 10 Back-up switch time <10ms	Rated input current	А	11.4	13.8	18.2	22.8				
Output side AC (Back-up) Rated output power kW 5 6 8 10 Back-up switch time < 10ms	Rated input voltage	Rated input voltage V		3L/N/PE, 380/400V						
Rated output power kW 5 6 8 10 Back-up switch time < 10ms	Rated input frequency Hz		50/60Hz							
Back-up switch time <10ms	Output side AC (Back-up)									
Rated output voltage 3L/N/PE, 380/400V Rated frequency 50/60Hz Rated output current 7.6A/7.2A 9.1A/8.7A 12.2A/11.5A 15.2A/14.4A	Rated output power	kW	5	6	8	10				
Rated frequency 50/60Hz Rated output current 7.6A/7.2A 9.1A/8.7A 12.2A/11.5A 15.2A/14.4A	Back-up switch time		<10ms							
Rated output current 7.6A/7.2A 9.1A/8.7A 12.2A/11.5A 15.2A/14.4A	Rated output voltage			3L/N/PE	,380/400V					
	Rated frequency			50/	60Hz					
THDv (@linear load) <2%	Rated output current		7.6A/7.2A	9.1A/8.7A	12.2A/11.5A	15.2A/14.4A				
	THDv (@linear load)			<	2%					

SKU/Model number		HH3P-5KA1/HU	HH3P-6KA1/HU	HH3P-8KA1/HU	HH3P-10KA1/HU			
Output side AC (Grid side)								
Rated output power	kW	5	6	8	10			
Max. apparent output power		8kVA, 60 sec	9kVA, 60 sec	12.8kVA, 60 sec	16kVA, 60 sec			
Rated grid voltage	V		3L/N/PE,	380/400V				
Rated grid output current	Hz		50/6	50/60Hz				
Max. output current	А	7.6A/7.2A	9.1A/8.7A	12.2A/11.5A	15.2A/14.4A			
Power factor		>0.99 (0.8 leading - 0.8 lagging)						
ГНDi			<3	%				
General data								
Dimensions	mm	600*500*	*210	600*500*	*230			
Weight	kg	27.58	3	30.18	8			
Topology			Transform	merless				
Self-consumption			<25	5W				
Operating ambient temperature		(-25 to +60)°C						
Protection rating		IP66						
Cooling concept		Natural convection						
Max. operation altitude		up to 4000m						
Grid connection standard		AS/NZS 4777.2:2020						
Safety/EMC standard		IEC/EN 62109-1/-2, IEC/EN 61000-6-1/-3						
Efficiency								
Max. efficiency	%	97.90%	97.90%	98.00%	98.00%			
EU efficiency	%	96.80%	97.10%	97.40%	97.50%			
Protection								
Anti-islanding protection			Ye	es				
ntegrated AFCI DC arc-fault circuit protection)			Ye	es				
nsulation resistor detection		Yes						
Residual current monitoring		Yes						
Output over current protection		Yes						
Output short protection		Yes						
Output over voltage protection		Yes						
ntegrated DC switch		Yes						
DC reverse-polarity protection		Yes						
PV over voltage protection		Yes						
Battery reverse protection			Ye	es				

Battery Specifications



Product warranty

Model HHS-1X10K













SKU/Model number		HHS -1X5K	HHS -1X10K	HHS -1X15K	HHS -1X20K		
CA number	Units	44053	44050	44051	44052		
Total capacity	KWH	5	10	15	20		
eatures							
Cell type		LiFePO4 Prismatic Cell, High Voltage ESS					
Battery module			5kWh, 40	0V, 52kg			
No of battery module		1	2	3	4		
Nominal energy	KWH	5	10	15	20		
Jsable energy (90% DOD)	KWH	4.5	9	13.5	18		
Nominal charge current	A	6	12	18	24		
Nominal discharge current	А	6.5	13	19.5	26		
Nominal voltage	V		400	OV			
Operating voltage range	V	350-440V					
General data							
Dimensions	mm	653*597*189	653*912*189	653*1227*189	653*1542*189		
Veight	kg	67	119	171	223		
Communication		CAN/RS485/Wi-Fi/LAN					
Protection function		Over and under voltage protection, overcurrent, short circuit protection. High and low temperature protection.					
Cycle life		>6000 times (25°C, 0.5C/0.5C, 90% DOD, 70% EOL)					
calability			Scalable from 5	kWh to 60kWh			
Protection rating		IP65					
Cooling type		Natural convection					
Vorking temperature charging		Charging: [-10,+50]°C					
Vorking temperature discharging		Discharging: [-20,+50]°C					
Vorking environment humidity		10%-95% (non condensation)					
Vorking altitude			≤2000 m (Derating over 2000m)				
Operating conditions			Indoor or outdoor				
nstallation		Ground installation					
Certifications		IEC 62619, CE					
ransportation		UN 38.3					

Customer Care

Visit the website for more information Australia: haierhome.com.au

Customer support and service booking Australia: support.haier.com.au/s/book-a-service



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