Haier

Solar Energy Solutions -Panels, Inverters, Batteries

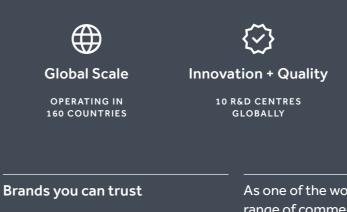
A single platform for residential and commercial solar energy.





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.*



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.



NATIONWIDE SUPPORT

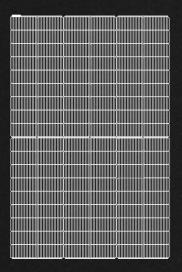


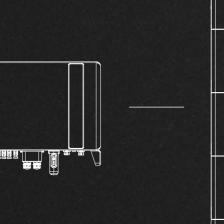
BACKED BY TRUSTED WARRANTIES

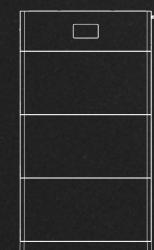
Nahui is an extension of the Haier brand, specialising in solar panels that work together seamlessly with Haier batteries and inverters for maximum efficiency and solar gain. Rigorously tested and with excellent reliability, Nahui and Haier Solar products provide a full-service solar solution for both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

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 maintenance required, all panels are covered by Haier-backed

long-term reliability. With minimal 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.

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

Advanced inverter models Even the most compact support complex layouts and easy scalability, accommodating diverse roof orientations and configurations.

Generous DC:AC ratio

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.

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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



Module per pallet

Power warranty First year degradation

Warranty Product workmanship

Moduleper 20 container

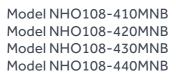
Moduleper 40 container

Annual power degradation %

Years

Years

%



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



SKU/Model number		NHO108- 410MN	NHO108- 420MN	NHO108- 430MN	NHO108- 440MN	NHO108- 410MNB	NHO108- 420MNB	NHO108- 430MNB	NHO108- 440MNB	NHO120- 460MNB	NHO120- 470MNB	NHO120- 480MNB	NHO120- 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			Topcon										
No of cells			108(12*9) 182*91										
Туре			Wł	nite					Bla	ack			
Dimensions	mm				1722*1	134*30					1903*1	134*30	
Weight	kg				21	1.5					23	5.8	
Front glass					3	3.2 mm solar g	lass with anti-	reflective sur	face treatmer	it			
Junction box							IP68 3	diodes					
Frame							Anodized Alu	iminium 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	lsc	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	lsc	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	V						15	000					
Max series fuse rating	А						2	25					
Power tolerance							0~+	+3%					
Pmax temp coeff	W/°C						-0.30	0%/°C					
Voc temp coeff	V/°C						-0.25	0%/°C					
lsc temp coeff	A/°C		0.046%/°C										
NMOT temp	°C		45±2										
Operating and storage temp	°C		(-40 to 85)										
Packaging data													

962

0.4

37/pallet

222

15

30

1

888

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	con				
No of cells			144(1	2*12)			132(1	.2*11)		
Туре					WI	hite				
Dimensions	mm		2278*1	134*35			2384*1	.303*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	lsc	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	A		2	25		30				
Power tolerance					-	-3				
Pmax temp coeff	W/°C		-0.30	0%/°C		-0.240%/°C				
Voc temp coeff	V/°C		-0.25	0%/°C			-0.220%/°C			
lsc temp coeff	A/°C		+0.04	6%/°C			+0.04	7%/°C		
NMOT temp	°C				45	5±2				
Operating and storage temp	°C				(-40	to 85)				
Packaging data										
Module per pallet					37/p	pallet				
Moduleper 20 container					1	85				
Moduleper 40 container			7-	40			8	14		
Warranty										
Product workmanship	Years				1	15				
Power warranty	Years				3	50				
First year degradation	%					1				
Annual power degradation	%				0	0.4				

Inverter Specifications

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



SKU/Model number		HH3P-5KA1/HU	HH3P-6KA1/HU	HH3P-8KA1/HU	HH3P-10KA1/HU			
CA number	Units	44174	44062	44063	44061			
Total capacity	kW	5	6	8	10			
Features								
PV connection			MC4 connector					
Battery connection		Quick connection plug						
AC connection		Quick connection plug						
Display			LED + Blue	etooth + APP				
Input side DC (PV)								
Recommended max. PV power	kW	8	9.6	12.8	16			
Max. input voltage	V		1	000				
Rated voltage	V		(500				
Start-up voltage	V		:	160				
MPPT voltage range	V		200	0-850				
Max. input current	А	16A/16	A/16A	16A/16A	/16A/16A			
Max. short circuit current	А	24A/24	A/24A	24A/24A	/24A/24A			
MPPT number	number		3	4	4			
Max. input strings number per MPPT		1	1	1	1			
Battery side								
Battery type			Li	- ion				
Battery voltage range	V		120	-600V				
Max. charge / discharge power	kW	5	6	8	10			
Max. charge / discharge current	А	25	25	50	50			
Communication			CAN	/RS 485				
Input side AC (Grid)								
Max. input power	kW	7.5	9	12	15			
Rated input current	А	11.4	13.8	18.2	22.8			
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			<1	l0ms				
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			
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	юHz			
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 leadir	ng - 0.8 lagging)			
THDi			<3	%			
General data							
Dimensions	mm	600*50	00*210	600*500)*230		
Weight	kg	27	.58	30.1	.8		
Тороlоду			Transfor	merless			
Self-consumption		<25W					
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	25			
Integrated AFCI (DC arc-fault circuit protection)			Ye	25			
Insulation resistor detection		Yes					
Residual current monitoring		Yes					
Output over current protection		Yes					
Output short protection		Yes					
Output over voltage protection		Yes					
Integrated DC switch			Ye	es			
DC reverse-polarity protection		Yes					
PV over voltage protection			Ye	es			
Battery reverse protection			Ye	25			

Battery Specifications

Model	HHS-1	X5K
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Model HHS-1X10K



Model HHS-1X15K

Model HHS-1X20K



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			
Features								
Cell type		LiFePO4 Prismatic Cell, High Voltage ESS						
Battery module		5kWh, 400V, 52kg						
No of battery module		1	1 2 3					
Nominal energy	KWH	5	10	15	20			
Usable energy (90% DOD)	KWH	4.5	9	13.5	18			
Nominal charge current	А	6	12	18	24			
Nominal discharge current	А	6.5	13	19.5	26			
Nominal voltage	V		400	V				
Operating voltage range	V		350-4	140V				
General data								
Dimensions	mm	653*597*189	653*912*189	653*1227*189	653*1542*189			
Weight	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)						
Scalability		Scalable from 5kWh to 60kWh						
Protection rating		IP65						
Cooling type		Natural convection						
Working temperature charging		Charging: [-10,+50]°C						
Working temperature discharging		Discharging: [-20,+50]°C						
Working environment humidity		10%-95% (non condensation)						
Working altitude			≤2000 m (Derating over 2000m)					
Operating conditions		Indoor or outdoor						
Installation		Ground installation						
Certifications		IEC 62619, CE						
Transportation		UN 38.3						
Warranty								
Product warranty	Years		10					



Customer Care

Visit the website for more information New Zealand: haierhome.co.nz

Customer support and service booking New Zealand: support.haier.co.nz/s/book-a-service



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