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

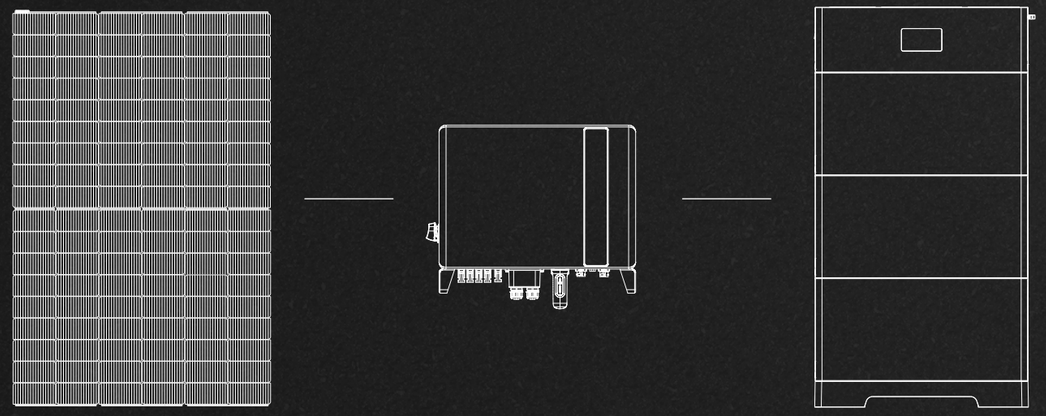
As one of the world’s largest brands, Haier provides a comprehensive range of commercial and residential solar products, air conditioning, water heating, and appliances, all designed for an integrated, connected system.

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.

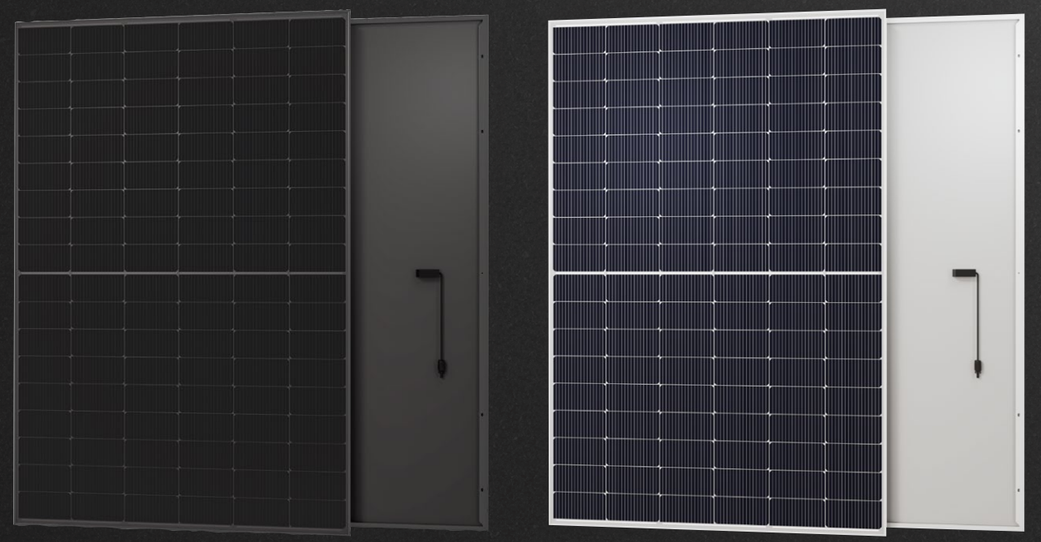
Peace of mind

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, better performance in low light, reduced power degradation and a higher temperature coefficient.*

Enhanced durability

Built to withstand moisture and temperature changes, ensuring 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

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



High protection rating

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

Enhanced energy output

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

Versatile system design

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

Generous DC:AC ratio

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.

Batteries

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



Flexible system

With the ability to connect up to four range modules in a series for up to 20kWh, 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

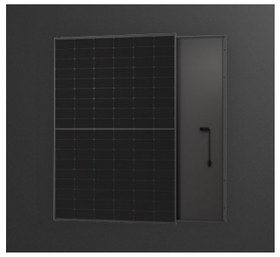
Haier batteries efficiently increase the voltage of the direct current (DC) electricity they store, making it compatible with a wide range of devices and systems.

Panel Specifications

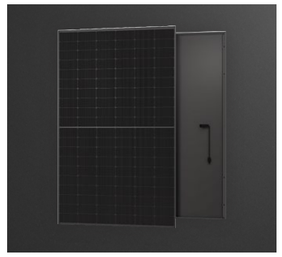
Model NHO108-410MN
Model NHO108-420MN
Model NHO108-430MN
Model NHO108-440MN



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



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



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	W	410	420	430	440	410	420	430	440	460	470	480	490
Features													
Technology		Topcon											
No of cells		108(12*9)								182*91			
Type		White				Black							
Dimensions	mm	1722*1134*30								1903*1134*30			
Weight	kg	21.5								23.8			
Front glass		3.2 mm solar glass with anti-reflective surface treatment											
Junction box		IP68 3 diodes											
Frame		Anodized Aluminium 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	V	1500											
Max series fuse rating	A	25											
Power tolerance		0~+3%											
Pmax temp coeff	W/°C	-0.300%/°C											
Voc temp coeff	V/°C	-0.250%/°C											
Isc temp coeff	A/°C	0.046%/°C											
NMOT temp	°C	45±2											
Operating and storage temp	°C	(-40 to 85)											
Packaging data													
Module per pallet		37/pallet											
Moduleper 20 container		222											
Moduleper 40 container		962								888			
Warranty													
Product workmanship	Years	15											
Power warranty	Years	30											
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	W	550	560	570	580	670	680	690	700
Features									
Technology		Topcon							
No of cells		144(12*12)				132(12*11)			
Type		White							
Dimensions	mm	2278*1134*35				2384*1303*30			
Weight	kg	28.4				33.9			
Front glass		3.2 mm solar glass with anti-reflective surface treatment							
Junction box		IP68 3 diodes							
Frame		Anodized Aluminium 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	1500							
Max series fuse rating	A	25				30			
Power tolerance		-3							
Pmax temp coeff	W/°C	-0.300%/°C				-0.240%/°C			
Voc temp coeff	V/°C	-0.250%/°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	15							
Power warranty	Years	30							
First year degradation	%	1							
Annual power degradation	%	0.4							

Inverter Specifications

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

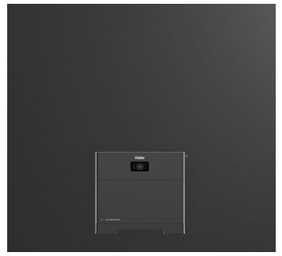


SKU/Model number		HH3P-5KA1/HU	HH3P-6KA1/HU	HH3P-8KA1/HU	HH3P-10KA1/HU
CA number	Units	44174	44062	44063	44061
Total capacity	kW	5	6	8	10
Features					
PV connection		MC4 connector			
Battery connection		Quick connection plug			
AC connection		Quick connection plug			
Display		LED + Bluetooth + APP			
Input side DC (PV)					
Recommended max. PV power	kW	8	9.6	12.8	16
Max. input voltage	V	1000			
Rated voltage	V	600			
Start-up voltage	V	160			
MPPT voltage range	V	200-850			
Max. input current	A	16A/16A/16A		16A/16A/16A/16A	
Max. short circuit current	A	24A/24A/24A		24A/24A/24A/24A	
MPPT number		3	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	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 input frequency	Hz	50/60Hz			
Output side AC (Back-up)					
Rated output power	kW	5	6	8	10
Back-up switch time		<10ms			
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	50/60Hz			
Max. output current	A	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)			
THDi		<3%			
General data					
Dimensions	mm	600*500*210		600*500*230	
Weight	kg	27.58		30.18	
Topology		Transformerless			
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		Yes			
Integrated AFCI (DC arc-fault circuit protection)		Yes			
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		Yes			
DC reverse-polarity protection		Yes			
PV over voltage protection		Yes			
Battery reverse protection		Yes			

Battery Specifications

Model HHS-1X5K



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 energy 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	2	3	4
Nominal energy	kWh	5	10	15	20
Usable energy (90% DOD)	kWh	4.5	9	13.5	18
Nominal charge current	A	6	12	18	24
Nominal discharge current	A	6.5	13	19.5	26
Nominal voltage	V	400V			
Operating voltage range	V	350-440V			
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)			
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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OUR PRODUCT HERE

Haier

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