

# 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.

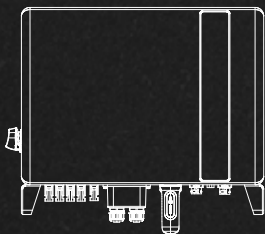
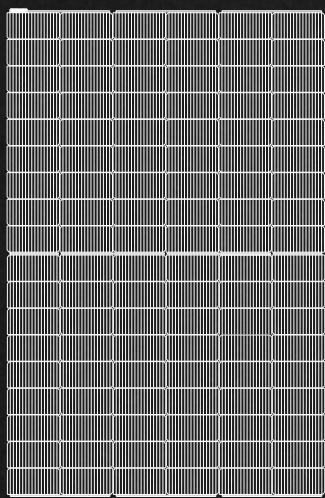
Nahui is an extension of the Haier brand, specialising in solar panels that work together seamlessly with Haier batteries and inverters for maximum efficiency and solar gain. Rigorously tested and with excellent reliability, Nahui and Haier Solar products provide a full-service solar solution for both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





# 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			





## Customer Care

Visit the website for more information

New Zealand: [haierhome.co.nz](http://haierhome.co.nz)

Customer support and service booking

New Zealand: [support.haier.co.nz/s/book-a-service](http://support.haier.co.nz/s/book-a-service)



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OUR PRODUCT HERE

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