# 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.\*





NATIONWIDE SUPPORT



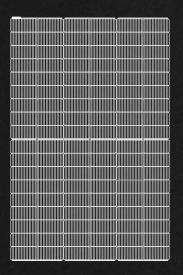
BACKED BY TRUSTED WARRANTIES

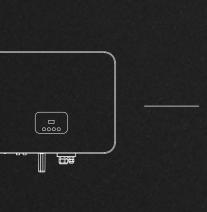
As one of the world's largest brands, Haier provides a comprehensive range of commercial and residential solar products, air conditioning, water heating, and appliances, all designed for an integrated, connected system.

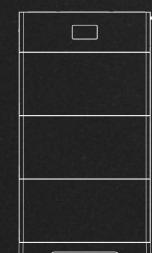
Within the Haier solar suite, a range of products developed by Nahui, a renewable energy platform wholly owned by the Haier Group, offers a fully connected suite of solar inverters, storage solutions, and solar panels, all rigorously tested for reliability in global markets.

# **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

Choose from a variety of inverters, from the economical, space-efficient Nahui range to the high-performance three-phase inverter.

#### 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.

Residential

Commercial

High performing residential panel range, featuring TOPCon Technology, with durability, tested against salt, mist, and ammonia.

#### Nahui Solar Panel, TOPCon, Single Glass Module, 410-440W

NHO108MN



- PID resistance Excellent anti-PID performance guaranteed through optimised mass-production processes and materials control.
- SMBB technology Better light trapping and current collection to improve module power output and reliability.
- Durability High resistance to salt mist and ammonia.
- Enhanced mechanical load Certified to withstand wind loads up to 2400 Pascals and snow loads up to 5400 Pascals.

Nahui Solar Panel, TOPCon, Single Glass Module, 410-440W

NHO108MNB



- PID resistance Excellent anti-PID performance guaranteed through optimised mass-production processes and materials control.
- SMBB technology Better light trapping and current collection to improve module power output and reliability.
- All black Blend seamlessly with roofs, offering a sleek, modern design.
- Enhanced mechanical load Certified to withstand wind loads up to 2400 Pascals and snow loads up to 5400 Pascals.

Nahui Solar Panel, TOPCon, Single Glass Module, 460-490W

#### NHO120MNB



- PID resistance Excellent anti-PID performance guaranteed through optimised mass-production processes and materials control.
- SMBB technology Better light trapping and current collection to improve module power output and reliability.
- All black Blend seamlessly with roofs, offering a sleek, modern design.
- Enhanced mechanical load Certified to withstand wind loads up to 2400 Pascals and snow loads up to 5400 Pascals.

## The range of larger, high-capacity panels are perfect for homes with greater energy needs and commercial use, delivering high performance with TOPCon Technology.

Nahui Solar Panel, TOPCon, Single Glass Module, 550-580W

NHO144MN

Nahui Solar Panel, TOPCon, Single Glass Module, 670-700W

#### NHO132MN







- PID resistance **Excellent anti-PID performance** guaranteed through optimised mass-production processes and materials control.
- SMBB technology Better light trapping and current collection to improve module power output and reliability.
- Durability High resistance to salt mist and ammonia.
- Enhanced mechanical load Certified to withstand wind loads up to 2400 Pascals and snow loads up to 5400 Pascals.

- PID resistance mass-production processes and materials control.
- SMBB technology collection to improve module power output and reliability.
- Durability High resistance to salt mist and ammonia.
- Enhanced mechanical load Certified to withstand wind loads up to 2400 Pascals and

Excellent anti-PID performance guaranteed through optimised

Better light trapping and current

snow loads up to 5400 Pascals.

Inverters

Convert solar energy into useable electricity efficiently with Haier inverters.



#### High protection rating

With an IP65 protection rating, all inverters within the range are suitable for installation both indoors and outdoors.

#### Enhanced energy output Versatile system design

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

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.

Explore a selection of inverters, from the economical and space-efficient Nahui range to the high-performance three-phase inverter, designed for high efficiency and performance.

Haier Hybrid PV Inverter, Three-Phase, 5-10kW

HH3P-KA1/HU

Single-Phase, 3-6kW

Smart control

• High yields

• Safe

N1PH-1NK



- 4 MPPTs Four integrated MPPTs, suitable for houses with multi-pitched rooftops, supporting high current solar panels.
- IP66 protection rating Supports unbalanced and half-wave loads on both the grid and backup port.
- Double current Maximum battery charge and discharge current: 50A (compare to the common industrial level of 25A).
- Overload capacity Backup overload capacity increased to 1.6 times for 60 seconds, supporting refrigeration and AC inductive loads.



Nahui Hybrid PV Inverter,

• Super efficiency Battery charge and discharge efficiency 10-15% higher than that of low voltage products.

Supports remote firmware upgrade and working modes.

IP65, for outdoor application.

Supports 1.5 DC:AC ratio to connect more PV capacity.

Batteries

Expandable and flexible battery solutions for residential and commercial use.



#### Flexible system

With the ability to connect up to eight Nahui range modules in a series for up to 40kWh, and eight systems in parallel for up to 320kWh. This flexibility allows you to configure your system to meet your specific energy needs.

#### Weather protected

Haier batteries are rated IP66, meaning they are dust-tight and protected against the elements. You can install them indoors or outdoors with are scalable, allowing confidence.

#### **Easy installation**

Battery ranges boasting large capacities, with the ability to be stacked without wiring, making installation easy. They 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.

Solar batteries that offer versatile solutions for residential and commercial use. Enjoy easy installation, high efficiency, advanced safety features, expandable capacity, durability, and flexible connections.

## Haier Battery, High Voltage ESS, 5-60kWh

HHS-1XK

Nahui Battery, High Voltage ESS, 10-40kWh

NHS-1YK



- DC-DC boost Built-in DC-DC boost voltage up to 400V, avoiding overheating caused by high currents.
- Safe IP65 rated, with LFP prismatic cells, three-layer safety protection, and five patented technologies.
- Flexible scalability 5kWh modular design, scalable from 5kWh to 60kWh. Stackable to 20kWh.
- Harsh environment -10°C to 50°C operating temperature.

- to 20kWh and extendable to 40kWh. Harsh environment
- Safe
- Fool-proof design
  - and play connection.



• Flexible scalability 5kWh modular design, scalable from 10kWh to 40kWh. Stackable

-20°C to 50°C discharge.

IP65, for outdoor application.

Stack and play, no wiring stack

# Panel **Specifications**

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



Operating and storage temp °C

Annual power degradation %

Years

Years

%

Packaging data Module per pallet

Warranty Product workmanship

Power warranty First year degradation

Moduleper 20 container

Moduleper 40 container

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

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



| <table-container>Tabla capacityNM410420430440420430440460470480490rows<th>SKU/Model number</th><th></th><th>NHO108-<br/>410MN</th><th>NHO108-<br/>420MN</th><th>NHO108-<br/>430MN</th><th>NHO108-<br/>440MN</th><th>NHO108-<br/>410MNB</th><th>NHO108-<br/>420MNB</th><th>NHO108-<br/>430MNB</th><th>NHO108-<br/>440MNB</th><th>NHO120-<br/>460MNB</th><th>NHO120-<br/>470MNB</th><th>NHO120-<br/>480MNB</th><th>NHO120-<br/>490MNB</th></table-container>  | SKU/Model number  |          | NHO108-<br>410MN | NHO108-<br>420MN | NHO108-<br>430MN | NHO108-<br>440MN | NHO108-<br>410MNB | NHO108-<br>420MNB | NHO108-<br>430MNB | NHO108-<br>440MNB | NHO120-<br>460MNB | NHO120-<br>470MNB | NHO120-<br>480MNB | NHO120-<br>490MNB |  |
|---|---|----------|------------------|------------------|------------------|------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|--|
| Preak with any series of the series of t                    | CA number   | Units    | 44085            | 44087            | 44089            | 44091            | 44162             | 44163             | 44164             | 44165             | 44166             | 44167             | 44168             | 44169             |  |
| <table-container>VariableMaxVariableMaxMaxAddAddAddAddAddAddAddAddAddAddAddAddMaxAddAddAddAddAddAddAddAddAddAddAddAddAddReak Ower ColumnationMaxAdd<th< td=""><td>Total capacity</td><td>kW</td><td>410</td><td>420</td><td>430</td><td>440</td><td>410</td><td>420</td><td>430</td><td>440</td><td>460</td><td>470</td><td>480</td><td>490</td></th<></table-container>  | Total capacity  | kW       | 410              | 420              | 430              | 440              | 410               | 420               | 430               | 440               | 460               | 470               | 480               | 490               |  |
| <table-container><th <="" colsmatrix<="" td=""><td>Features</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></th></table-container>  | <td>Features</td> <td></td>           | Features |                  |                  |                  |                  |                   |                   |                   |                   |                   |                   |                   |                   |  |
| WeightMmWeightVVV   | Technology  |          |                  |                  |                  |                  |                   | Тор               | con               |                   |                   |                   |                   |                   |  |
| <table-container>Dimensions<br/>Meight<br/>Meight<br/>Meight<br/>MeightMeight<br/>Meight<br/>Meight<br/>MeightInterview State State</table-container> | No of cells   |          |                  |                  |                  | 108(             | 12*9)             |                   |                   |                   |                   | 182               | *91               |                   |  |
| Weight<br>ford glasVery<br>ford glasSet Total set                         | Туре  |          |                  | Wł               | nite             |                  |                   |                   |                   | Bla               | ack               |                   |                   |                   |  |
| Priority display: Section 2.5 Control                 | Dimensions  | mm       |                  |                  |                  | 1722*1           | 134*30            |                   |                   |                   |                   | 1903*1            | 134*30            |                   |  |
| <th colsman<<="" td=""><td>Weight</td><td>kg</td><td></td><td></td><td></td><td>21</td><td>1.5</td><td></td><td></td><td></td><td></td><td>23</td><td>5.8</td><td></td></th>  | <td>Weight</td> <td>kg</td> <td></td> <td></td> <td></td> <td>21</td> <td>1.5</td> <td></td> <td></td> <td></td> <td></td> <td>23</td> <td>5.8</td> <td></td> | Weight   | kg               |                  |                  |                  | 21                | 1.5               |                   |                   |                   |                   | 23                | 5.8               |  |
| Analogical Section 1999Analogical Section 1999Anal  | Front glass   |          |                  |                  |                  | 3                | 3.2 mm solar g    | lass with anti-   | reflective sur    | face treatmer     | nt                |                   |                   |                   |  |
| At a wind and snow loads       Very Advance of the state o   | Junction box  |          |                  |                  |                  |                  |                   | IP68 3            | diodes            |                   |                   |                   |                   |                   |  |
| Belevical data STC       Peak power     Pmax     410     420     430     440     420     430     440     460     470     480     490       Max power voltage     Vmp     31.13     31.51     31.88     52.24     31.13     31.51     31.80     152.5     35.37     35.70       Max power current     Imp     13.17     13.33     13.49     13.65     13.17     13.38     13.49     13.13     31.13     31.51     31.13     31.13     31.13     31.13     31.13     31.13     31.13     31.14     31.33     31.49     13.53     31.49     31.33     31.41     31.33     31.49     31.41     31.51     31.37       Open circuit voltage     Voc     37.373.58     88.11.39     38.412.39     38.412.39     38.412.39     38.412.39     38.412.39     38.412.39     38.412.39     38.412.39     38.412.39     38.412.39     38.412.39     38.412.39     38.412.39     38.412.39     38.412.39     38.412.39     38.412.39     38.412.39     38.412.39 </td <td>Frame</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>Anodized Alu</td> <td>iminium Alloy</td> <td></td> <td></td> <td></td> <td></td> <td></td>   | Frame   |          |                  |                  |                  |                  |                   | Anodized Alu      | iminium Alloy     |                   |                   |                   |                   |                   |  |
| Peak power     Pmax     410     420     430     440     460     460     460     470     480     490       Max power voltage     Vmp     31.13     31.151     31.88     32.24     31.13     31.51     31.88     32.24     31.71     13.33     13.51     13.65     13.17     13.33     13.49     13.65     13.49     13.65     13.25     13.41     13.53     13.73       Open circuit voltage     Voc     37.73±3%     38.11±3%     38.49±3%     38.71±3%     13.49     13.65     13.17     13.33     13.49     13.65     13.49     13.65     13.49     13.65     13.49     13.65     13.49     13.69     13.64     13.65     13.49     13.69     13.65     13.49     13.65     13.49     13.65     13.49     13.69     38.11±3%     38.11±3%     38.11±3%     38.11±3%     14.07±3%     14.07±3%     14.07±3%     14.07±3%     14.07±3%     14.07±3%     14.07±3%     14.07±3%     14.07±3%     14.07±3%     14.07±3%     14.07±3%     14.07±3%  | Max wind and snow loads   |          |                  |                  |                  |                  |                   | 2400Pa            | /5400Pa           |                   |                   |                   |                   |                   |  |
| Max power voltage     Vmp     31.13     31.51     31.88     32.24     31.13     31.51     31.88     32.24     31.13     31.88     32.24     34.81     32.24     34.72     35.05     35.37     35.77       Max power ourrent     Imp     13.17     13.33     13.49     13.65     13.17     13.33     13.49     13.65     13.49     13.65     13.25     13.41     13.57     13.73       Open circuit voltage     Voc     37.73±3%     38.14±3%     38.49±3%     38.89±3%     14.39±3%     14.07±3%     14.23±3%     14.39±3%     14.07±3%     14.23±3%     14.39±3%     14.07±3%     14.39±3%     14.07±3%     14.39±3%     14.07±3%     14.39±3%     14.07±3%     14.39±3%     14.07±3%     14.39±3%     14.07±3%     14.39±3%     14.39±3%     14.07±3%     14.39±3%     14.39±3%     14.39±3%     14.39±3%     14.39±3%     14.39±3%     14.39±3%     14.39±3%     14.39±3%     14.39±3%     14.39±3%     14.39±3%     14.39±3%     14.39±3%     14.39±3%     14.39±3%     13.99     14.15±3% <td>Electrical data STC</td> <td></td>   | Electrical data STC   |          |                  |                  |                  |                  |                   |                   |                   |                   |                   |                   |                   |                   |  |
| Max power current     Imp     13.17     13.33     13.49     13.65     13.45     13.41     13.57     13.47       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%     38.71±3%     38.11±3%     38.49±3%     48.49±3%  | Peak power  | Pmax     | 410              | 420              | 430              | 440              | 410               | 420               | 430               | 440               | 460               | 470               | 480               | 490               |  |
| No.     No. <td>Max power voltage</td> <td>Vmp</td> <td>31.13</td> <td>31.51</td> <td>31.88</td> <td>32.24</td> <td>31.13</td> <td>31.51</td> <td>31.88</td> <td>32.24</td> <td>34.72</td> <td>35.05</td> <td>35.37</td> <td>35.70</td>   | 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             |  |
| Nor circuit curue     Isc     13.913%     14.0743%     14.3943%     13.9143%     14.0743%     14.3943%     13.9943%     13.9943%     14.1543%     14.4743       Module efficiency     %     21.00     21.51     22.02     22.54     21.00     21.51     22.02     22.54     21.00     21.51     22.02     22.54     21.00     21.51     22.02     22.54     21.00     21.51     22.02     22.54     21.00     21.51     22.02     22.54     21.00     21.51     22.02     22.54     21.00     21.51     22.02     22.54     21.00     21.51     22.02     22.54     21.00     21.51     22.02     22.54     21.00     21.51     22.02     22.54     21.00     21.51     22.02     22.54     21.00     21.51     22.02     22.54     21.00     21.51     22.02     22.54     21.00     21.51     22.02     22.54     21.00     21.51     22.02     22.54     21.00     21.51     22.02     22.54     21.00     21.00     21.00     21.   | 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             |  |
| Module efficiency     %     21.00     21.51     22.02     22.54     21.00     21.51     22.02     22.54     21.32     21.32     21.78     22.24     22.76       Electrical data NMOT     Peak power     Pmax     30.88     316     323     329     30.8     316     323     331     346     353     361     369       Max power voltage     Vmp     29.06     29.34     29.63     29.93     29.37     29.03     30.08     30.42     32.60     32.94     33.26     33.56       Max power voltage     Vmp     29.063     29.63     29.937     29.37     30.08     30.42     32.60     32.94     33.26     33.56       Max power voltage     Vmp     10.61     10.76     10.91     11.67     10.63     10.75     10.88     10.61     10.75     10.88     10.61     10.75     10.88     10.61     10.75     10.88     10.61     10.75     11.61     10.75     11.42±3%     11.61±3%     11.61±3%     11.22±3%     11.42±3% <td>Open circuit voltage</td> <td>Voc</td> <td>37.73±3%</td> <td>38.11±3%</td> <td>38.49±3%</td> <td>38.87±3%</td> <td>37.73±3%</td> <td>38.11±3%</td> <td>38.49±3%</td> <td>38.87±3%</td> <td>42.05±3%</td> <td>42.38±3%</td> <td>42.70±3%</td> <td>43.03±39</td>   | 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±39          |  |
| Electrical data NMOT     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 voltage     Vmp     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±33     36.52±3%     36.52±3%     36.03±3%     36.39±3%     36.75±3%     37.11±3%     39.94±3%     40.57±3%     40.89±3       Short circuit current     Isc     11.36±3%     11.49±3%     11.6±3%     11.26±3%     11.29±3%     11.56±3%     11.26±3%     11.6±3%     11.26±3%     11.42±3%     11.42±3%     11.42±3%     11.42±3%     11.42±3%     11.42±3%     11.42±3%     11.42±3%     11.42±3%     11.42±3%     11.42±3%     11.42±3%     11.42±3%     11.42±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±39          |  |
| 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     40.8943       Open circuit voltage     Voc     35.84±3%     36.02±3%     36.52±3%     36.03±3%     36.75±3%     37.11±3%     39.94±3%     40.25±3%     40.8943       Short circuit current of     Isc     11.36±3%     11.63±3%     11.29±3%     11.29±3%     11.42±3%     11.29±3%     11.42±3%     11.29±3%     11.42±3%     11.42±3%     11.42±3%     11.42±3%     11.42±3%     11.42±3%     11.42±3%     11.42±3%     11.42±3%     11.42±3%     11.42±3%     11.42±3%     11.42±3%     11.42±3%     11.42±3%     11.42±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             |  |
| Any 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     33.36       Max power voltage     Imp     10.61     10.76     10.91     11.07     10.50     10.63     10.75     10.88     10.61     10.73     10.85     40.593       Open circuit voltage     Voc     35.84±3%     36.02±3%     36.52±3%     36.03±3%     36.75±3%     37.11±3%     39.94±3%     40.57±3%     40.89±3%       Short circuit current     Isc     11.36±3%     11.64±3%     11.16±3%     11.42±3%     11.56±3%     11.42±3%     11.29±3%     11.42±3% <td>Electrical data NMOT</td> <td></td>   | Electrical data NMOT  |          |                  |                  |                  |                  |                   |                   |                   |                   |                   |                   |                   |                   |  |
| Max power current     Mp     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%     36.75±3%     37.11±3%     39.94±3%     40.25±3%     40.57±3%     40.89±3       Short circuit current     Isc     11.23±3%     11.49±3%     11.6±3%     11.29±3%     11.42±3%     11.56±3%     11.42±3%     11.29±3%     11.42±3%     11   | Peak power  | Pmax     | 308              | 316              | 323              | 329              | 308               | 316               | 323               | 331               | 346               | 353               | 361               | 369               |  |
| 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     11.32±3%     11.49±3%     11.61±3%     11.42±3%     11.56±3%     11.29±3%     11.29±3%     11.29±3%     11.29±3%     11.29±3%     11.29±3%     11.62±3%     11.61±3%     11.42±3%     11.56±3%     11.62±3%     11.61±3%     11.42±3%     11.29±3%     11.42±3%     11.29±3%     11.62±3%     11.61±3%  | 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             |  |
| Short circuit curve   Isc   11.23±3%   11.36±3%   11.49±3%   11.63±3%   11.29±3%   11.42±3%   11.56±3%   11.42±3%   11.42±3%   11.29±3%   11.42±3%   | 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             |  |
| Temperature and max ratings   Max system voltage V   Max system voltage V   Max series fuse rating A   Power tolerance 0   Pmax temp coeff W <sup>o</sup> C   Voc temp coeff V/ <sup>o</sup> C   Voc temp coeff A/ <sup>o</sup> C   | 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±39          |  |
| 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  | 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±39          |  |
| 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  | Temperature and max rati  | ngs      |                  |                  |                  |                  |                   |                   |                   |                   |                   |                   |                   |                   |  |
| 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  | Max system voltage  | V        |                  | 1500             |                  |                  |                   |                   |                   |                   |                   |                   |                   |                   |  |
| Pmax temp coeff     W/°C     -0.300%/°C       Voc temp coeff     V/°C     -0.250%/°C       Isc temp coeff     A/°C     0.046%/°C  | Max series fuse rating  | А        |                  | 25               |                  |                  |                   |                   |                   |                   |                   |                   |                   |                   |  |
| Voc temp coeff     V/°C     -0.250%/°C       Isc temp coeff     A/°C     0.046%/°C  | Power tolerance   |          | 0~+3%            |                  |                  |                  |                   |                   |                   |                   |                   |                   |                   |                   |  |
| lsc temp coeff A/°C 0.046%/°C   | Pmax temp coeff   | W/°C     | -0.300%/°C       |                  |                  |                  |                   |                   |                   |                   |                   |                   |                   |                   |  |
|   | Voc temp coeff  | V/°C     |                  |                  |                  |                  |                   | -0.25             | 0%/°C             |                   |                   |                   |                   |                   |  |
| NMOT temp °C 45±2   | lsc temp coeff  | A/°C     |                  |                  |                  |                  |                   | 0.046             | 5%/°C             |                   |                   |                   |                   |                   |  |
|   | NMOT temp   | °C       |                  |                  |                  |                  |                   | 45                | i±2               |                   |                   |                   |                   |                   |  |

962

0.4

(-40 to 85)

37/pallet

222

15

30

1

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



|   |  | - | - |  |
|---|--|---|---|--|
| 1 |  |   |   |  |
|   |  |   |   |  |
|   |  |   |   |  |

| SKU/Model number          |       | NHO144-<br>550MN      | NHO144-<br>560MN | NHO144-<br>570MN | NHO144-<br>580MN       | NHO132-<br>670MN        | NHO132-<br>680MN | NHO132-<br>690MN | NHO132-<br>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                      |       |                       |                  |                  | W                      | 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     | 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 ratin | gs    |                       |                  |                  |                        |                         |                  |                  |                  |  |
| Max system voltage        | V     |                       |                  |                  | 15                     | 500                     |                  |                  |                  |  |
| Max series fuse rating    | А     |                       | 2                | 25               |                        |                         | 3                | 50               |                  |  |
| Power tolerance           |       |                       |                  |                  | -                      | -3                      |                  |                  |                  |  |
| Pmax temp coeff           | W/°C  |                       | -0.30            | 0%/°C            |                        |                         | -0.24            | 0%/°C            |                  |  |
| Voc temp coeff            | V/°C  |                       | -0.25            | 0%/°C            |                        |                         | -0.220%/°C       |                  |                  |  |
| lsc temp coeff            | A/°C  | +0.045%/°C +0.047%/°C |                  |                  |                        |                         |                  |                  |                  |  |
| NMOT temp                 | °C    |                       |                  |                  | 45                     | 5±2                     |                  |                  |                  |  |
| Operating and storage tem | p °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                      | 30                      |                  |                  |                  |  |
| First year degradation    | %     |                       |                  |                  |                        | 1                       |                  |                  |                  |  |
| Annual power degradation  | %     |                       |                  |                  | -                      | .4                      |                  |                  |                  |  |

# Inverter Specifications

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

Model N1PH-1N3K Model N1PH-1N3.6K Model N1PH-1N5K Model N1PH-1N6K





| SKU/Model number                  |       | HH3P-5KA1/HU            | HH3P-6KA1/HU | HH3P-8KA1/HU | HH3P-10KA1/HU   | N1PH-1N3K | N1PH-1N3.6K | N1PH-1N5K | N1PH-1N6K |
|-----------------------------------|-------|-------------------------|--------------|--------------|-----------------|-----------|-------------|-----------|-----------|
| CA number                         | Units | 44174                   | 44062        | 44063        | 44061           | 44064     | 44065       | 44066     | 44067     |
| Total capacity                    | kW    | 5                       | 6            | 8            | 10              | 3         | 3.6         | 5         | 6         |
| Features                          |       |                         |              |              |                 |           |             |           |           |
| PV connection                     |       |                         |              |              | MC4 connect     | tor       |             |           |           |
| Battery connection                |       |                         |              |              | Quick connectio | on plug   |             |           |           |
| AC connection                     |       |                         |              |              | Quick connectio | on plug   |             |           |           |
| Display                           |       |                         | LED + Blue   | tooth + APP  |                 | LCD +     | OLED        |           |           |
| Input side DC (PV)                |       |                         |              |              |                 |           |             |           |           |
| Recommended max.<br>PV power      | kW    | 8                       | 9.6          | 12.8         | 16              | 4.5       | 5.5         | 7.5       | 9         |
| Max. input voltage                | V     |                         | 10           | 000          |                 |           | 6           | 00        |           |
| Rated voltage                     | V     |                         | 6            | 00           |                 |           | 3           | 60        |           |
| Start-up voltage                  | V     |                         | 1            | 60           |                 |           | 1           | 50        |           |
| MPPT voltage range                | V     |                         | 200          | -850         |                 |           | 120         | -550      |           |
| Max. input current                | А     | 16A/16A/16A 16A/16A/16A |              | 13.5A/13.5A  |                 |           |             |           |           |
| Max. short circuit current        | А     | 24A/24A/24A 24A/24A/24A |              |              |                 |           | 17A         | /17A      |           |
| MPPT number                       |       | 3                       | 3            | 4            | 4               | 2         | 2           | 2         | 2         |
| Max. input strings number per MPF | РТ    | 1                       | 1            | 1            | 1               | 1         | 1           | 1         | 1         |
| Battery side                      |       |                         |              |              |                 |           |             |           |           |
| Battery type                      |       |                         |              |              | Li - ion        |           |             |           |           |
| Battery voltage range             | V     |                         | 120-         | -600V        |                 | 80-450V   |             |           |           |
| Max. charge / discharge power     | kW    | 5                       | 6            | 8            | 10              | 4.5/3     | 5.5/3.68    | 6/5       | 6/6       |
| Max. charge / discharge current   | А     | 25                      | 25           | 50           | 50              | 25        | 25          | 25        | 25        |
| Communication                     |       |                         |              |              | CAN/RS 48       | 485       |             |           |           |
| Input side AC (Grid)              |       |                         |              |              |                 |           |             |           |           |
| Max. input power                  | kW    | 7.5                     | 9            | 12           | 15              | 3         | 3.68        | 5         | 6         |
| Rated input current               | А     | 11.4                    | 13.8         | 18.2         | 22.8            | 13        | 16          | 21.7      | 26.1      |
| Rated input voltage               | V     |                         | 3L/N/PE      | , 380/400V   |                 |           | 160~        | 290V      |           |
| Rated input frequency             | Hz    |                         | 50/          | 60Hz         |                 |           | 45-55Hz     | /55-65Hz  |           |
| Output side AC (Back-up)          |       |                         |              |              |                 |           |             |           |           |
| Rated output power                | kW    | 5                       | 6            | 8            | 10              | 3         | 3.6         | 5         | 6         |
| Back-up switch time               |       |                         | <1           | 0ms          |                 |           | <0          | .5s       |           |
| Rated output voltage              |       |                         | 3L/N/PE      | , 380/400V   |                 |           | 220/23      | 0/240V    |           |
| Rated frequency                   |       |                         | 50/          | 60Hz         |                 |           | 50/6        | 50Hz      |           |
| Rated output current              |       | 7.6A/7.2A               | 9.1A/8.7A    | 12.2A/11.5A  | 15.2A/14.4A     | 13A       | 16A         | 21.7A     | 26.1A     |
| THDv (@linear load)               |       |                         | <            | 2%           |                 |           | <3          | 5%        |           |

| SKU/Model number                                     |    | HH3P-5KA1/HU                           | HH3P-6KA1/HU    | HH3P-8KA1/HU       | HH3P-10KA1/HU | N1PH-1N3K      | N1PH-1N3.6K | N1PH-1N5K     | N1PH-1N6 |
|--|----|--|-----------------|--------------------|---------------|----------------|-------------|---------------|----------|
| Output side AC (Grid side)                           |    |  |                 |                    |               |                |             |               |          |
| Rated output power                                   | kW | 5                                      | 6               | 8                  | 10            | 3              | 3.68        | 5             | 6        |
| Max. apparent output power                           |    | 8kVA, 60 sec                           | 9kVA, 60 sec    | 12.8kVA, 60 sec    | 16kVA, 60 sec | 3kVA           | 3.68kVA     | 5kVA          | 6kVA     |
| Rated grid voltage                                   | V  |  | 3L/N/PE         | ,380/400V          |               |                | 220/23      | 0/240V        |          |
| Rated grid output current                            | Hz |  | 50/             | 60Hz               |               |                | 50/6        | 50Hz          |          |
| Max. output current                                  | А  | 7.6A/7.2A                              | 9.1A/8.7A       | 12.2A/11.5A        | 15.2A/14.4A   | 13A            | 16A         | 21.7A         | 26.1A    |
| Power factor   |    |  | >0.99 (0.8 lead | ing - 0.8 lagging) |               |                | 0.8 leading | - 0.8 lagging |          |
| THDi   |    |  | <               | 3%                 |               |                | <2          | .%            |          |
| General data   |    |  |                 |                    |               |                |             |               |          |
| Dimensions   | mm | 600*5                                  | 00*210          | 600*5              | 500*230       |                | 520*43      | 12*172        |          |
| Weight   | kg | 27                                     | .58             | 3                  | 0.18          |                | 2           | 0             |          |
| Topology   |    |  | Transfo         | ormerless          |               | Non-isolation  |             |               |          |
| Self-consumption                                     |    |  | <2              | 25W                |               | <15W           |             |               |          |
| Operating ambient temperature                        |    |  | (-25 to         | o +60)°C           |               | (-30 to +60)°C |             |               |          |
| Protection rating                                    |    |  | IF              | P66                |               |                | IP          | 65            |          |
| Cooling concept                                      |    |  | Natural o       | convection         |               |                | Natural co  | onvection     |          |
| Max. operation altitude                              |    |  | up to           | 4000m              |               |                | 200         | 00m           |          |
| 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%        | 97.42%         | 97.45%      | 97.50%        | 97.50%   |
| EU efficiency  | %  | 96.80%                                 | 97.10%          | 97.40%             | 97.50%        | 97.15%         | 97.17%      | 97.20%        | 97.20%   |
| Protection   |    |  |                 |                    |               |                |             |               |          |
| Anti-islanding protection                            |    |  |                 |                    | Yes           |                |             |               |          |
| Integrated AFCI<br>(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

Warranty Product warranty

Years



## Model HHS-1X10K



#### Model HHS-1X15K

-

10



### Model NHS-1Y10K





| 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   | 2           | 3            | 4            |  |  |  |  |  |
| 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     |   | 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.<br>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 co  | onvection    |              |  |  |  |  |  |
| 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 626     | 519, CE      |              |  |  |  |  |  |
| Transportation                  |       | UN 38.3   |             |              |              |  |  |  |  |  |

| SKU/Model number                |              | NHS-1Y10K  | NHS-1Y15K   | NHS-1Y20K    |  |  |  |  |
|---------------------------------|--------------|--|-------------|--------------|--|--|--|--|
| CA number                       | Units        | 44054  | 44055       | 44056        |  |  |  |  |
| Total capacity                  | KWh          | 10.24  | 15.36       | 20.48        |  |  |  |  |
| Features                        |              |  |             |              |  |  |  |  |
| Cell type                       |              | LiFePO4 Pouch Cell , High Voltage ESS  |             |              |  |  |  |  |
| Battery module                  |              | 5.12kWh, 102.4V, 45kg  |             |              |  |  |  |  |
| No of battery module            |              | 2  | 3           | 4            |  |  |  |  |
| Nominal energy                  | KWH          | 10.24  | 15.36       | 20.48        |  |  |  |  |
| Usable energy (90% DOD)         | KWH          | 9.728  | 14.592      | 19.456       |  |  |  |  |
| Nominal charge current          | А            | 25   | 25          | 25           |  |  |  |  |
| Nominal discharge current       | А            | 40   | 40          | 40           |  |  |  |  |
| Nominal voltage                 | al voltage V |  | 307.2       | 409.6        |  |  |  |  |
| Operating voltage range         | V            | 182.4-230.4  | 273.6-345.6 | 364.8-460.8  |  |  |  |  |
| General data                    |              |  |             |              |  |  |  |  |
| Dimensions                      | mm           | 636*330*628  | 636*330*816 | 636*330*1004 |  |  |  |  |
| Weight                          | kg           | 117  | 165         | 213          |  |  |  |  |
| Communication                   |              | RS485/CAN/Wi-Fi/Bluetooth  |             |              |  |  |  |  |
| Protection function             |              | Charge overvoltage, discharge under-voltage, overcurrent, over-temperature,<br>short circuit protection, insulation fault protection, etc. |             |              |  |  |  |  |
| Cycle life                      |              | 6000 times (+25°C)   |             |              |  |  |  |  |
| Scalability                     |              | Scalable from 10kWh to 40kWh   |             |              |  |  |  |  |
| Protection rating               |              | IP65   |             |              |  |  |  |  |
| Cooling type                    |              | Natural convection   |             |              |  |  |  |  |
| Working temperature charging    |              | Charging: [-10,+50]°C  |             |              |  |  |  |  |
| Working temperature discharging |              | Discharging: [-20,+50]°C   |             |              |  |  |  |  |
| Working environment humidity    |              | ≤85% (RH)  |             |              |  |  |  |  |
| Working altitude                |              | ≤2000 m (Derating over 2000m)  |             |              |  |  |  |  |
| Operating conditions            |              | Indoor or outdoor  |             |              |  |  |  |  |
| Installation                    |              | Ground installation  |             |              |  |  |  |  |
| Certifications                  |              | IEC62619, CE, IEC62638, UKCA   |             |              |  |  |  |  |
| Transportation                  |              | UN 38.3  |             |              |  |  |  |  |
| Warranty                        |              |  |             |              |  |  |  |  |
| Product warranty                | Years        |  | 10          |              |  |  |  |  |

#### Model NHS-1Y20K



#### Customer Care

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