

## Bifacial Double Glass Module DAS-DH144NA

# 575W~600W



### Key Features



#### High Efficiency

Leading module efficiency in industry, up to 23.2%



#### Excellent Appearance and Performance

Bifacial solar cell, symmetrical design, low risk of micro-crack



#### High Reliability

Passed 3\*IEC standard test, 15 years materials warranty, 30 years power warranty



#### Excellent Rear Side Power Generation

Bifaciality is up to 80%, up to 30% more energy yield than conventional modules



#### Better low irradiance performance

Higher power output even under low irradiance environments like on cloudy or foggy days



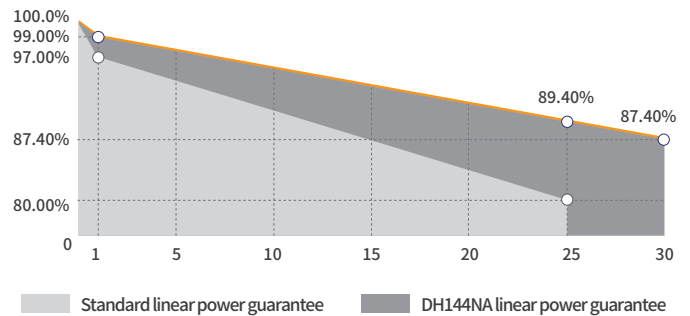
#### Extensive Application Scenes

More extensive application scenes, such as BIPV, snow field, vertical installation, high humidity, strong wind and desert region

|                      |                           |                        |
|----------------------|---------------------------|------------------------|
| Maximum Power Output | Maximum Module Efficiency | Power Output Tolerance |
| <b>600W</b>          | <b>23.2%</b>              | <b>0~+5W</b>           |

### Product and Quality Certifications

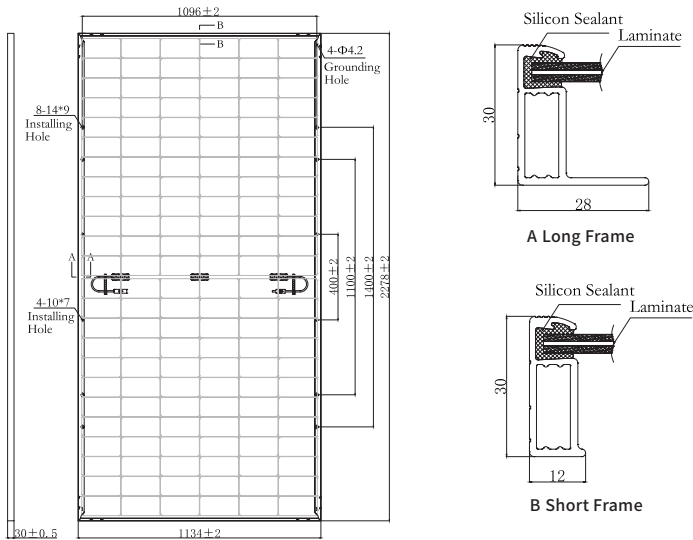
- IEC 61215, IEC 61730
- ISO 9001: Quality Management System
- ISO 14001: Environment Management System
- ISO 45001: Occupational Health and Safety Management System
- IEC 62716, IEC 61701: Ammonia, Salt mist corrosion test
- IEC TS 62804-1, IEC 60068-2-68: PID test, Dust and Sand test



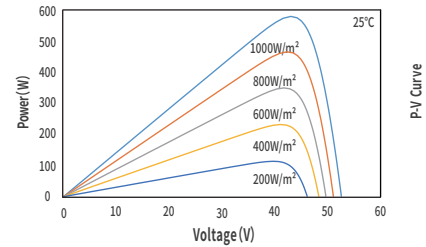
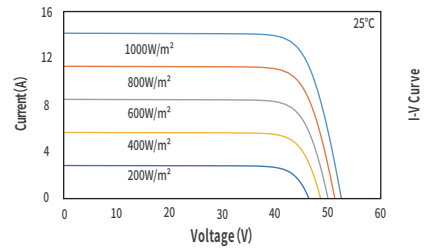
### Leading product and power warranty

**-1.00%** 1st-year Degradation **-0.40%** Annual Degradation **15** Years materials and workmanship warranty **30** Years linear power warranty

## Engineering Drawing (mm)



## Characteristic Curves(585W)



## Electrical Parameters (STC \*)

| Nominal Max. Power(Pmax/W)   | 575   | 580   | 585   | 590   | 595   | 600   |
|------------------------------|-------|-------|-------|-------|-------|-------|
| Open Circuit Voltage(Voc/V)  | 52.00 | 52.20 | 52.40 | 52.60 | 52.80 | 53.00 |
| Short Circuit Current(Isc/A) | 13.94 | 14.00 | 14.07 | 14.14 | 14.21 | 14.28 |
| Operating Voltage(Vmp/V)     | 43.37 | 43.55 | 43.73 | 43.91 | 44.08 | 44.26 |
| Operating Current(Imp/A)     | 13.26 | 13.32 | 13.38 | 13.44 | 13.50 | 13.56 |
| Efficiency(%)                | 22.3  | 22.5  | 22.6  | 22.8  | 23.0  | 23.2  |

STC \*: Irradiance = 1000 W/m<sup>2</sup>, Cell Temperature = 25°C, AM = 1.5  
Test condition is based on the front side

## Mechanical Parameters

|                 |   |
|-----------------|---|
| Cell Type       | N Type  |
| Module Size     | 2278 × 1134 × 30mm  |
| Glass Thickness | 2.0mm + 2.0mm   |
| Module Weight   | 31.3Kg  |
| Output Cable    | 4mm <sup>2</sup> , cable length +400mm/-200mm (can be customized) |
| Connector       | PV-DA02M2-XY (or customized)                                      |
| Junction Box    | IP68, 3 bypass diodes   |
| Frame           | Anodized aluminium alloy  |

## Electrical Parameters (NMOT \*)

| Nominal Max. Power(Pmax/W)   | 437   | 440   | 444   | 448   | 452   | 456   |
|------------------------------|-------|-------|-------|-------|-------|-------|
| Open Circuit Voltage(Voc/V)  | 49.79 | 49.98 | 50.17 | 50.36 | 50.56 | 50.75 |
| Short Circuit Current(Isc/A) | 11.24 | 11.29 | 11.34 | 11.40 | 11.45 | 11.51 |
| Operating Voltage(Vmp/V)     | 40.84 | 41.01 | 41.18 | 41.34 | 41.51 | 41.67 |
| Operating Current(Imp/A)     | 10.69 | 10.74 | 10.79 | 10.83 | 10.88 | 10.93 |

NMOT \*: Irradiance = 800 W/m<sup>2</sup>, Ambient Temperature = 20°C, AM = 1.5,  
Wind Speed = 1 m/s  
Test condition is based on the front side

## Temperature Coefficients

|                            |            |
|----------------------------|------------|
| Short Circuit Current(Isc) | +0.045%/°C |
| Open Circuit Voltage(Voc)  | -0.250%/°C |
| Nominal Max. Power(Pmax)   | -0.300%/°C |
| NMOT                       | 42 ± 2°C   |

## Backside Power Gain (For 585W)

| Power Gain                   | 10%   | 15%   | 20%   | 25%   | 30%   |
|------------------------------|-------|-------|-------|-------|-------|
| Nominal Max. Power(Pmax/W)   | 643.5 | 672.8 | 702.0 | 731.3 | 760.5 |
| Open Circuit Voltage(Voc/V)  | 52.40 | 52.40 | 52.50 | 52.50 | 52.50 |
| Short Circuit Current(Isc/A) | 15.48 | 16.18 | 16.88 | 17.59 | 18.29 |
| Operating Voltage(Vmp/V)     | 43.73 | 43.73 | 43.83 | 43.83 | 43.83 |
| Operating Current(Imp/A)     | 14.72 | 15.38 | 16.02 | 16.68 | 17.35 |

## Operating Parameters

|                         |                                     |
|-------------------------|-------------------------------------|
| Max. System Voltage     | DC1500V                             |
| Power Tolerance         | 0 ~ +5 W                            |
| Operating Temperature   | -40°C ~ +85°C                       |
| Max. Fuse Rated Current | 30A                                 |
| Bifaciality             | 80% ± 5%                            |
| Static Load             | Front 5400Pa, Back 2400Pa           |
| Packing Data            | 36 pcs/Pallet; 180(20GP); 720(40HQ) |