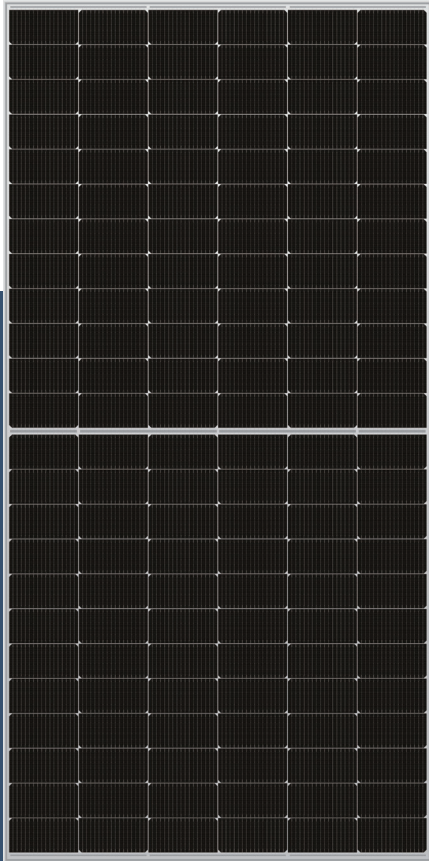


# Bifacial Double Glass Module DAS-DH144NA

## 565W~590W



### Key Features



#### High Efficiency

Leading module efficiency in industry, up to 22.8%



#### 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



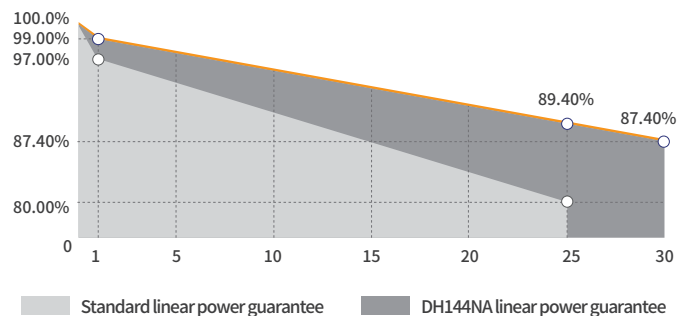
#### Extensive Application Scenes

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>590W</b>	<b>22.8%</b>	<b>0~+5W</b>

### Product and Quality Certifications

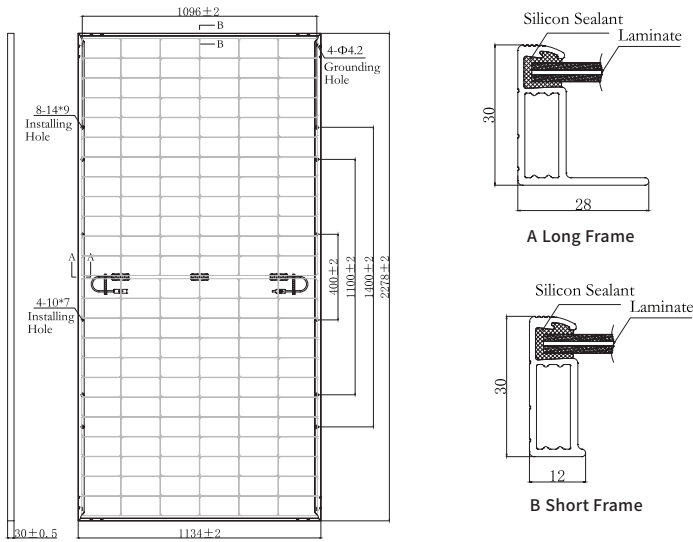
- IEC 61215, IEC 61730
- ISO 9001: Quality Management System
- ISO 14001: Environment Management System
- ISO 45001: Occupational Health and Safety Management System
- IEC 62716, IEC 61701: Ammonia, Salt mist corrosion test
- IEC TS 62804-1, IEC 60068-2-68: PID test, Dust and Sand test



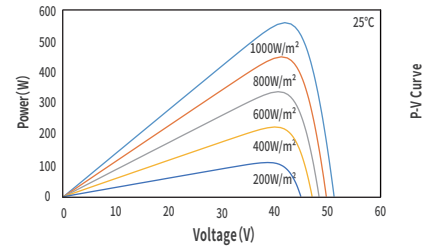
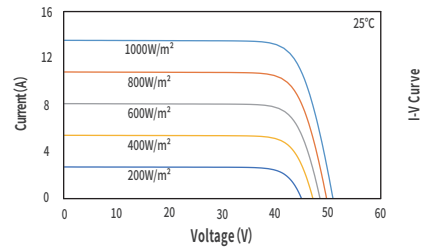
### Leading product and power warranty

**-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(570W)



## Electrical Parameters (STC \*)

Nominal Max. Power(Pmax/W)	565	570	575	580	585	590
Open Circuit Voltage(Voc/V)	51.39	51.60	51.80	52.00	52.20	52.40
Short Circuit Current(Isc/A)	13.79	14.25	14.30	14.37	14.43	14.49
Operating Voltage(Vmp/V)	43.00	42.32	42.50	42.69	42.87	43.05
Operating Current(Imp/A)	13.14	13.47	13.53	13.59	13.65	13.71
Efficiency(%)	21.9	22.1	22.3	22.5	22.6	22.8

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
Module Weight	31.3Kg
Output Cable	4mm <sup>2</sup> , cable length 300mm (can be customized)
Connector	MC4 compatible
Junction Box	IP68, 3 bypass diodes
Frame	Anodized aluminium alloy

## Electrical Parameters (NMOT \*)

Nominal Max. Power(Pmax/W)	427.0	430.0	433.0	437.0	441.0	445.0
Open Circuit Voltage(Voc/V)	48.61	48.70	48.89	49.08	49.27	49.45
Short Circuit Current(Isc/A)	11.12	11.13	11.17	11.22	11.27	11.32
Operating Voltage(Vmp/V)	40.53	40.73	40.93	41.19	41.49	41.67
Operating Current(Imp/A)	10.54	10.56	10.58	10.61	10.63	10.68

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 570W)

Power Gain	10%	15%	20%	25%	30%
Nominal Max. Power(Pmax/W)	627.0	655.5	684.0	712.5	741.0
Open Circuit Voltage(Voc/V)	51.60	51.60	51.70	51.70	51.70
Short Circuit Current(Isc/A)	15.68	16.39	17.10	17.81	18.53
Operating Voltage(Vmp/V)	42.32	42.32	42.42	42.42	42.42
Operating Current(Imp/A)	14.82	15.49	16.12	16.80	17.47

## Operating Parameters

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