



Bifacial Double Glass Module DAS-DH144ND

600W~620W

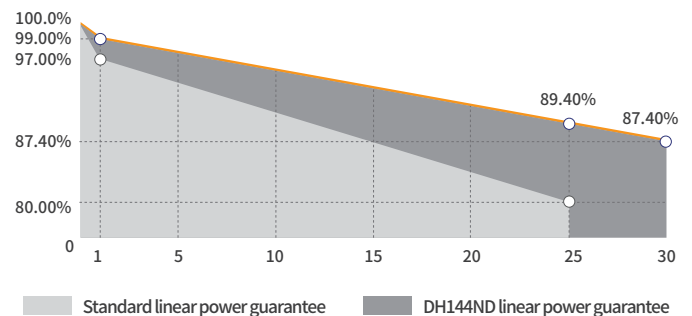
Key Features

- High Efficiency**
 Leading module efficiency in industry, up to 23.0%
- Excellent Appearance and Performance**
 Bifacial solar cell, symmetrical design, low risk of micro-crack
- High Reliability**
 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
620W	23.0%	0~+5W

Product and Quality Certifications

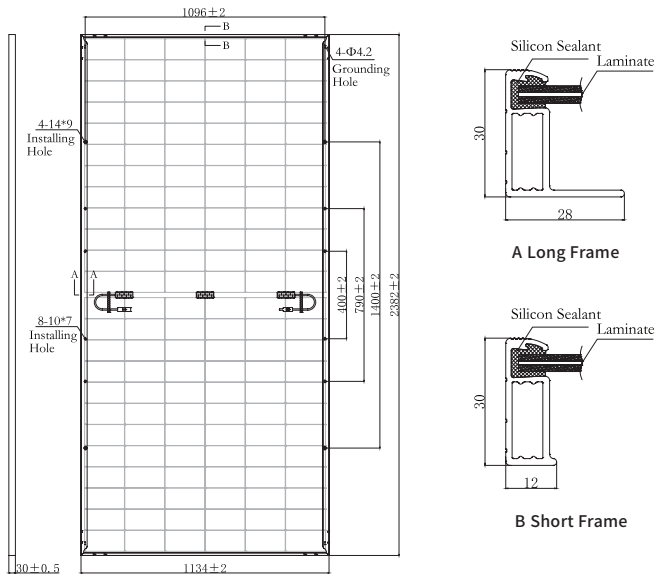
- IEC 61215, IEC 61730
- ISO 9001: Quality Management System
- ISO 14001: Environment Management System
- ISO 45001: Occupational Health and Safety Management System



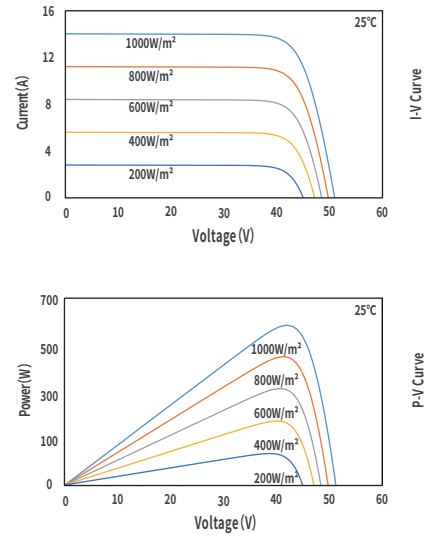
Leading Product and Power Warranty

-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(605W)



Electrical Parameters (STC *)

Nominal Max. Power(Pmax/W)	600	605	610	615	620
Open Circuit Voltage(Voc/V)	51.70	51.86	52.02	52.17	52.34
Short Circuit Current(Isc/A)	14.68	14.74	14.80	14.87	14.92
Operating Voltage(Vmp/V)	43.14	43.30	43.46	43.62	43.79
Operating Current(Imp/A)	13.91	13.98	14.04	14.10	14.16
Efficiency(%)	22.2	22.4	22.6	22.8	23.0

STC *: Irradiance = 1000 W/m², Cell Temperature = 25°C, AM = 1.5
Test condition is based on the front side

Mechanical Parameters

Cell Type	N Type
Module Size	2382×1134×30mm
Glass Thickness	2.0mm
Module Weight	32.5Kg
Output Cable	4mm ² , cable length +400mm/-200mm (can be customized)
Connector	See note
Junction Box	IP68, 3 bypass diodes
Frame	Anodized aluminium alloy

Connector*: 1.PV-DA01M2-XY 2.PV-ZH202B 3.PV-KST4-EVO2/xy_UR,PV-KBT4-EVO2/xy_UR
4.PV-KST4-EVO2A/xy,PV-KBT4-EVO2A/xy
5.PV-JK03M2/xy (Plug+Socket);PV-JK03M2/xy (Plug+Socket)

Electrical Parameters (NMOT *)

Nominal Max. Power(Pmax/W)	457	461	465	469	472
Open Circuit Voltage(Voc/V)	49.50	49.66	49.81	49.95	50.12
Short Circuit Current(Isc/A)	11.83	11.88	11.93	11.99	12.03
Operating Voltage(Vmp/V)	40.77	40.90	41.07	41.23	41.38
Operating Current(Imp/A)	11.21	11.27	11.32	11.37	11.41

NMOT *: Irradiance = 800 W/m², 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)	-0.280%/°C
NMOT	42±2°C

Fire Safety Class: Class C

Electrical Parameters (BNPI *)

Nominal Max. Power(Pmax/W)	660	665	670	675	680
Open Circuit Voltage(Voc/V)	51.70	51.86	52.02	52.17	52.34
Short Circuit Current(Isc/A)	16.24	16.30	16.37	16.45	16.50
Operating Voltage(Vmp/V)	43.14	43.30	43.46	43.62	43.79
Operating Current(Imp/A)	15.39	15.46	15.53	15.60	15.67

BNPI *: front irradiance=1000W/m², rear irradiance=135W/m²,
Cell Temperature = 25°C, AM = 1.5
Pmax bifaciality coefficient 80±5%, Voc bifaciality coefficient 95±5%
Isc bifaciality coefficient 80±5%

Operating Parameters

Max. System Voltage	DC1500V
Power Measurement Tolerance	±3%
Operating Temperature	-40°C ~ +85°C
Max. Fuse Rated Current	30A
Fire Safety Class	Class C
Static Load	Front 5400Pa, Back 2400Pa
Packing Data	36 pcs/Pallet; 144(20GP); 720(40HQ)