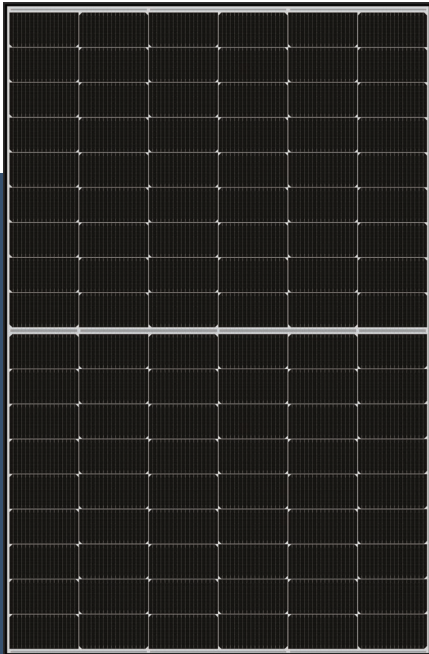


Bifacial Double Glass Module (Black Frame)

DAS-DH108NA

445W-450W



Key Features



High Efficiency

Leading module efficiency in industry, up to 22.3%



Excellent Appearance and Performance

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



High Reliability

25 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

450W

Maximum Module Efficiency

23.0%

Power Output Tolerance

0~+5W

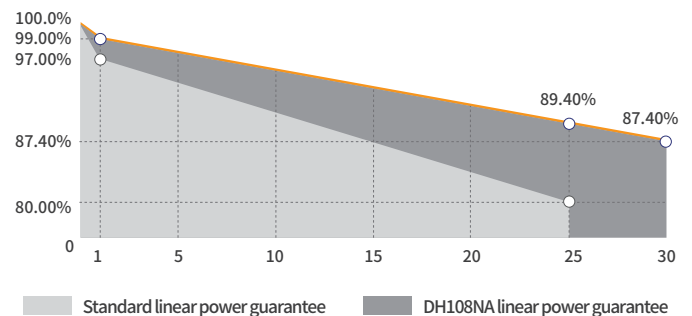
Product and Quality Certifications

IEC 61215, IEC 61730

ISO 9001: Quality Management System

ISO 14001: Environment Management System

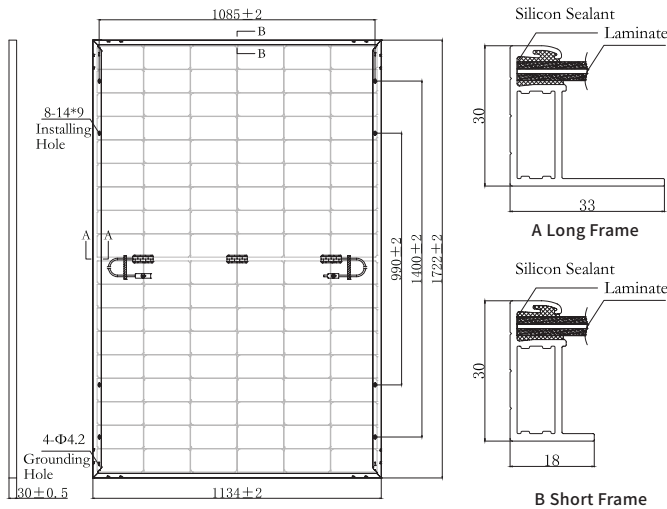
ISO 45001: Occupational Health and Safety Management System



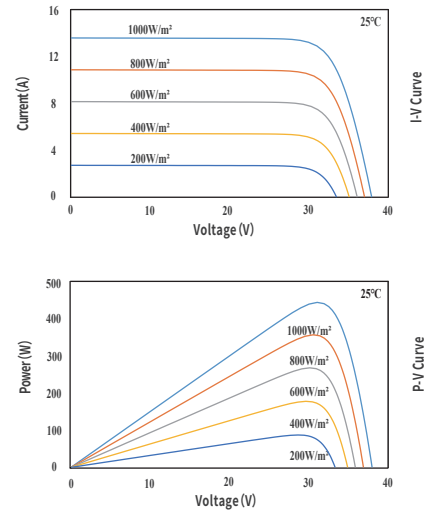
Leading Product and Power Warranty

-1.00% 1st-year Degradation **-0.40%** Annual Degradation **25** Years materials and workmanship warranty **30** Years linear power warranty

Engineering Drawing (MM)



Characteristic Curves(440W)



Electrical Parameters (STC *)

| | | |
|------------------------------|-------|-------|
| Nominal Max. Power(Pmax/W) | 445 | 450 |
| Open Circuit Voltage(Voc/V) | 39.12 | 39.36 |
| Short Circuit Current(Isc/A) | 14.03 | 14.08 |
| Operating Voltage(Vmp/V) | 33.51 | 33.76 |
| Operating Current(Imp/A) | 13.28 | 13.33 |
| Efficiency(%) | 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 | 1722×1134×30mm |
| Glass Thickness | 1.6mm |
| Module Weight | 20.5Kg |
| Output Cable | 4mm ² , cable length 1200mm(can be customized) |
| Connector | See note |
| Junction Box | IP68, 3 bypass diodes |
| Frame | Anodized aluminium alloy (Black) |

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) | 338 | 342 |
| Open Circuit Voltage(Voc/V) | 37.46 | 37.69 |
| Short Circuit Current(Isc/A) | 11.31 | 11.35 |
| Operating Voltage(Vmp/V) | 31.56 | 31.79 |
| Operating Current(Imp/A) | 10.71 | 10.75 |

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) | -0.300%/°C |
| NMOT | 42±2°C |

Electrical Parameters (BNPI *)

| | | |
|------------------------------|-------|-------|
| Nominal Max. Power(Pmax/W) | 485 | 490 |
| Open Circuit Voltage(Voc/V) | 39.12 | 39.36 |
| Short Circuit Current(Isc/A) | 15.52 | 15.57 |
| Operating Voltage(Vmp/V) | 33.51 | 33.76 |
| Operating Current(Imp/A) | 14.70 | 14.75 |

BNPI *: front irradiance=1000W/m², rear irradiance=135W/m²,
Cell Temperature = 25°C, AM = 1.5
Pmax bifaciality coefficient 80±10%, Voc bifaciality coefficient 95±5%
Isc bifaciality coefficient 80±10%

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; 216(20GP); 936(40HQ) |