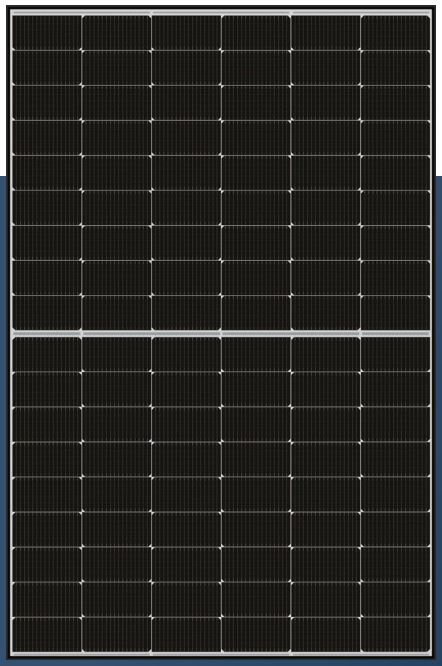
DASOLAR

N Type

# Bifacial Double Glass Module (Black Frame)

## DAS-DH108NA

# 440W



| Maximum Power Output | Maximum Module Efficiency | Ultra-thin Glass |
|---|---|---|
| 440W | 22.5% | 1.6mm |

## Key Features

**High Efficiency**
Leading module efficiency in industry, up to 22.5%

**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

## Product and Quality Certifications

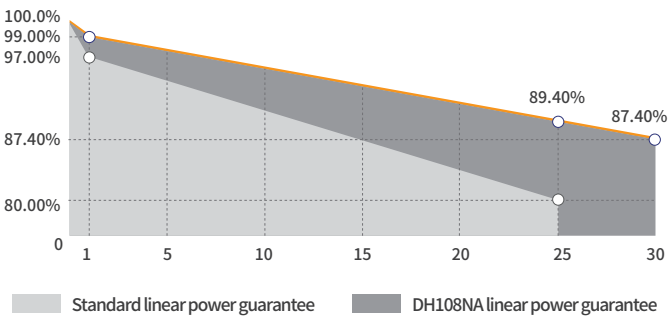
IEC 61215, IEC 61730

ISO 9001：Quality Management System

ISO 14001：Environment Management System

ISO 45001：Occupational Health and Safety Management System

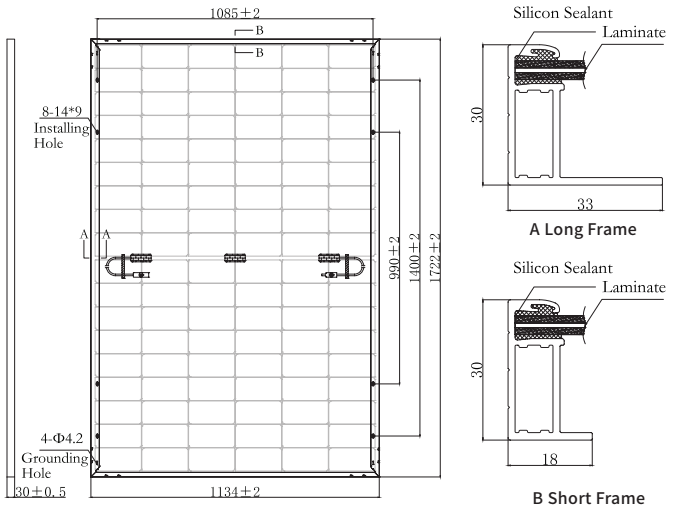
CE



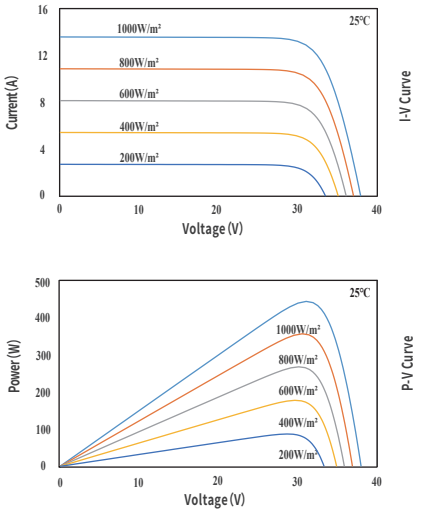

## Leading Product and Power Warranty

-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) | 440 |
| Open Circuit Voltage(Voc/V) | 38.88 |
| Short Circuit Current(Isc/A) | 13.98 |
| Operating Voltage(Vmp/V) | 33.26 |
| Operating Current(Imp/A) | 13.23 |
| Efficiency(%) | 22.5 |
| Power measurement tolerance(%) | ±3 |

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 | 4mm², 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) | 329.0 |
| Open Circuit Voltage(Voc/V) | 36.69 |
| Short Circuit Current(Isc/A) | 11.27 |
| Operating Voltage(Vmp/V) | 31.04 |
| Operating Current(Imp/A) | 10.60 |

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) | 480 |
| Open Circuit Voltage(Voc/V) | 38.88 |
| Short Circuit Current(Isc/A) | 15.30 |
| Operating Voltage(Vmp/V) | 33.26 |
| Operating Current(Imp/A) | 14.49 |

BNPI * : front irradiance=1000W/m², rear irradiance=135W/m²,
Cell Temperature = 25°C, AM = 1.5
Bifaciality 80% ± 10%

## Operating Parameters

| | |
|---|---|
| Max. System Voltage | DC1500V |
| Power Output Tolerance | ±5W |
| 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) |

DASOLAR
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Version number:2024.05.21
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