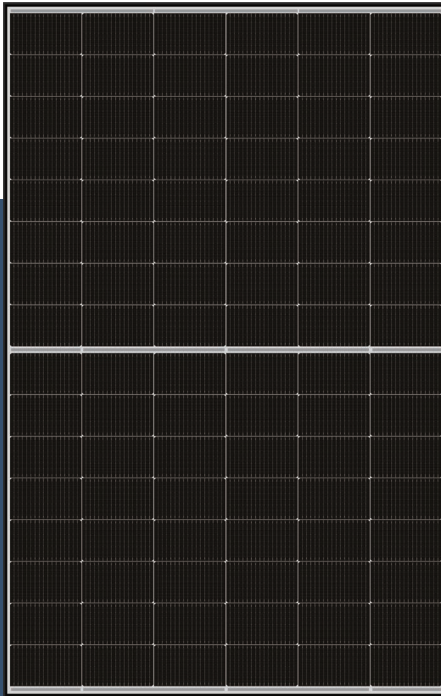


Monofacial Double Glass Module (Black Frame)

DAS-DH96NE.A

445W~470W



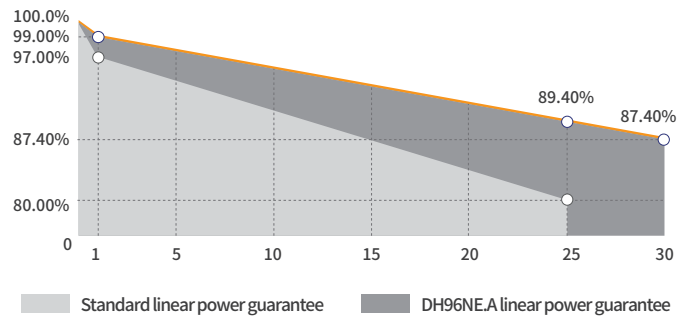
Key Features

- High Efficiency**
 Leading module efficiency in industry, up to 23.5%
- Excellent Appearance and Performance**
 symmetrical design, low risk of micro-crack
- High Reliability**
 Passed 3*IEC standard test, 25 years materials warranty, 30 years power warranty
- Low NMOT**
 As low as 42°C, improving the power generation efficiency
- 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 |
| 470W | 23.5% | 0~+5W |

Product and Quality Certifications

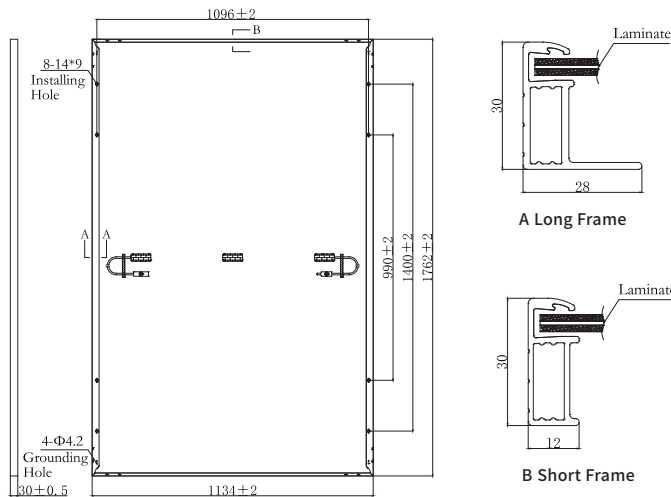
- IEC 61215, IEC 61730
- ISO 9001: Quality Management System
- ISO 14001: Environment Management System
- ISO 45001: Occupational Health and Safety Management System
- IEC 62716, IEC 61701: Ammonia, Salt mist corrosion test
- IEC TS 62804-1, IEC 60068-2-68: PID test, Dust and Sand test



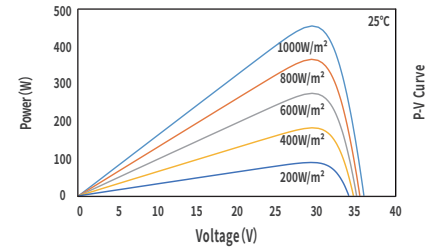
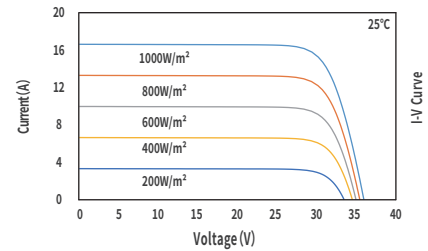
Leading product and power warranty

-1.00% 1st-year Degradation **-0.40%** Annual Degradation **25** Materials and workmanship warranty **30** Linear power warranty

Engineering Drawing (mm)



Characteristic Curves(460W)



Electrical Parameters (STC *)

| | | | | | | |
|------------------------------|-------|-------|-------|-------|-------|-------|
| Nominal Max. Power(Pmax/W) | 445 | 450 | 455 | 460 | 465 | 470 |
| Open Circuit Voltage(Voc/V) | 35.11 | 35.30 | 35.50 | 35.68 | 35.78 | 35.89 |
| Short Circuit Current(Isc/A) | 16.01 | 16.08 | 16.16 | 16.22 | 16.32 | 16.43 |
| Operating Voltage(Vmp/V) | 29.83 | 30.02 | 30.22 | 30.41 | 30.50 | 30.56 |
| Operating Current(Imp/A) | 14.92 | 14.99 | 15.06 | 15.13 | 15.25 | 15.38 |
| Efficiency(%) | 22.3 | 22.5 | 22.8 | 23.0 | 23.3 | 23.5 |

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 | 1762×1134×30mm |
| Glass Thickness | 1.6mm + 1.6mm |
| Module Weight | 21.6Kg |
| Output Cable | 4mm ² , cable length 1200mm (can be customized) |
| Connector | Original MC4 Series |
| Junction Box | IP68, 3 bypass diodes |
| Frame | Anodized aluminium alloy (Black) |

Electrical Parameters (NMOT *)

| | | | | | | |
|------------------------------|-------|-------|-------|-------|-------|-------|
| Nominal Max. Power(Pmax/W) | 339 | 343 | 347 | 350 | 354 | 358 |
| Open Circuit Voltage(Voc/V) | 33.62 | 33.80 | 33.99 | 34.16 | 34.26 | 34.36 |
| Short Circuit Current(Isc/A) | 12.91 | 12.96 | 13.03 | 13.08 | 13.16 | 13.24 |
| Operating Voltage(Vmp/V) | 28.19 | 28.37 | 28.56 | 28.74 | 28.82 | 28.88 |
| Operating Current(Imp/A) | 12.03 | 12.08 | 12.14 | 12.20 | 12.29 | 12.40 |

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

Operating Parameters

| | |
|-------------------------|---------------------------|
| Max. System Voltage | DC1500V |
| Power Tolerance | 0 ~ +5 W |
| Operating Temperature | -40°C ~ +85°C |
| Max. Fuse Rated Current | 35A |
| Static Load | Front 5400Pa, Back 2400Pa |

Temperature Coefficients

| | |
|----------------------------|------------|
| Short Circuit Current(Isc) | +0.045%/°C |
| Open Circuit Voltage(Voc) | -0.25%/°C |
| Nominal Max. Power(Pmax) | -0.280%/°C |
| NMOT | 42±2°C |

Packing Data

| | | |
|------------------|-------|-------|
| Packing Type | 20'GP | 40'HQ |
| Piece/Pallet | 37 | 37 |
| Pallet/Container | 6 | 26 |
| Piece/Container | 222 | 962 |