

DAON™ 5.0

Bifacial Double Glass Module
DAS-DH132NE

635W~650W



Key Features



High Efficiency

Leading module efficiency in industry, up to 24.1%



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



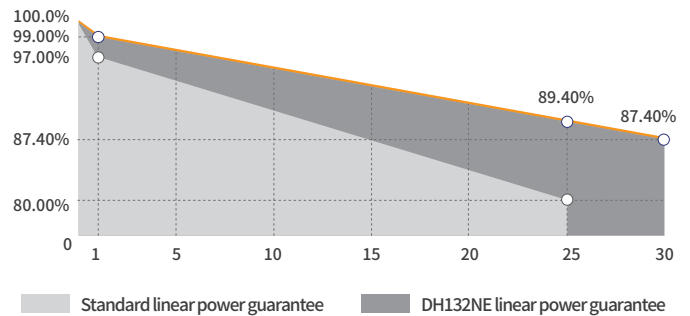
Extensive Application Scenes

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 |
| 650W | 24.1% | 0~+5W |

Product and Quality Certifications

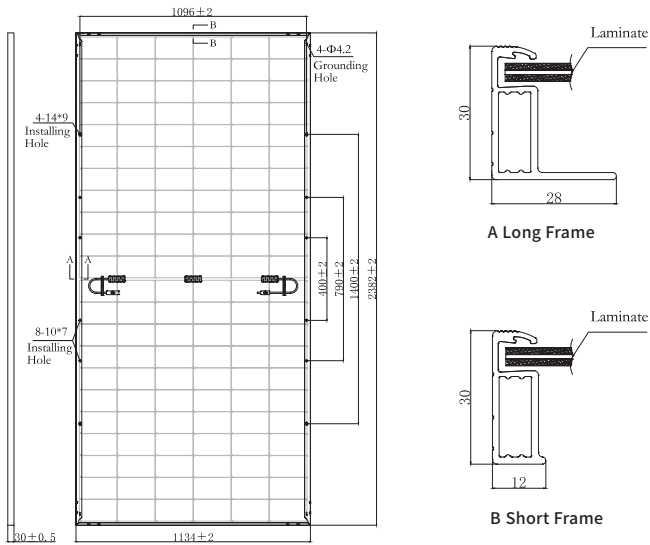
- IEC 61215, IEC 61730
- ISO 9001: Quality Management System
- ISO 14001: Environment Management System
- ISO 45001: Occupational Health and Safety Management System
- IEC 62716, IEC 61701: Ammonia, Salt mist corrosion test
- IEC TS 62804-1, IEC 60068-2-68: PID test, Dust and Sand test



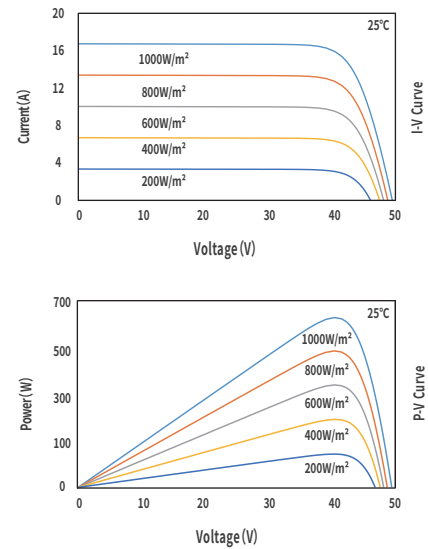
Leading product and power warranty

-1.00% 1st-year Degradation **-0.40%** Annual Degradation **15** Materials and workmanship warranty **30** Linear power warranty

Engineering Drawing (mm)



Characteristic Curves(640W)



Electrical Parameters (STC *)

| Parameter | 635 | 640 | 645 | 650 |
|------------------------------|-------|-------|-------|-------|
| Nominal Max. Power(Pmax/W) | 635 | 640 | 645 | 650 |
| Open Circuit Voltage(Voc/V) | 48.88 | 49.06 | 49.22 | 49.38 |
| Short Circuit Current(Isc/A) | 16.29 | 16.35 | 16.41 | 16.47 |
| Operating Voltage(Vmp/V) | 41.00 | 41.18 | 41.33 | 41.49 |
| Operating Current(Imp/A) | 15.49 | 15.55 | 15.61 | 15.67 |
| Efficiency(%) | 23.5 | 23.7 | 23.9 | 24.1 |

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 + 2.0mm |
| Module Weight | 31.9Kg |
| Output Cable | 4mm ² , cable length +400mm/-200mm (can be customized) |
| Connector | PV-DA02M2-XY (or customized) |
| Junction Box | IP68, 3 bypass diodes |
| Frame | Anodized aluminium alloy |

Electrical Parameters (NMOT *)

| Parameter | 484 | 488 | 491 | 495 |
|------------------------------|-------|-------|-------|-------|
| Nominal Max. Power(Pmax/W) | 484 | 488 | 491 | 495 |
| Open Circuit Voltage(Voc/V) | 46.80 | 46.97 | 47.13 | 47.28 |
| Short Circuit Current(Isc/A) | 13.13 | 13.18 | 13.23 | 13.28 |
| Operating Voltage(Vmp/V) | 38.75 | 38.90 | 39.05 | 39.21 |
| Operating Current(Imp/A) | 12.49 | 12.54 | 12.58 | 12.63 |

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 |

Backside Power Gain (For 640W)

| Power Gain | 10% | 15% | 20% | 25% | 30% |
|------------------------------|-------|-------|-------|-------|-------|
| Nominal Max. Power(Pmax/W) | 704.0 | 736.0 | 768.0 | 800.0 | 832.0 |
| Open Circuit Voltage(Voc/V) | 49.06 | 49.06 | 49.06 | 49.06 | 49.06 |
| Short Circuit Current(Isc/A) | 17.99 | 18.80 | 19.62 | 20.44 | 21.26 |
| Operating Voltage(Vmp/V) | 41.18 | 41.18 | 41.18 | 41.18 | 41.18 |
| Operating Current(Imp/A) | 17.10 | 17.87 | 18.65 | 19.43 | 20.20 |

Operating Parameters

| | |
|-------------------------|-------------------------------------|
| Max. System Voltage | DC1500V |
| Power Tolerance | 0 ~ +5 W |
| Operating Temperature | -40°C ~ +85°C |
| Max. Fuse Rated Current | 35A |
| Bifaciality | 80% ± 5% |
| Static Load | Front 5400Pa, Back 2400Pa |
| Packing Data | 36 pcs/Pallet; 144(20GP); 720(40HQ) |