

P Type
Bifacial Double Glass Module
DAS-DH156PA

580W~600W

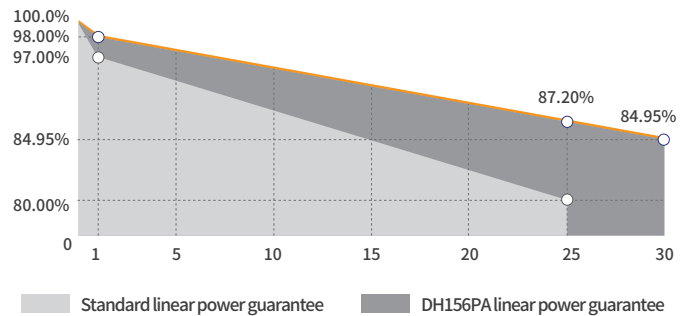
Key Features

- High Efficiency**
 Leading module efficiency in industry, up to 21.5%
- 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 70%, up to 25% more energy yield than conventional modules
- Reduce Mismatch Loss**
 Half-cut cell technology provides optimized energy production under inter-row shading conditions
- 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 |
| 600W | 21.5% | 0~+5W |

Product and Quality Certifications

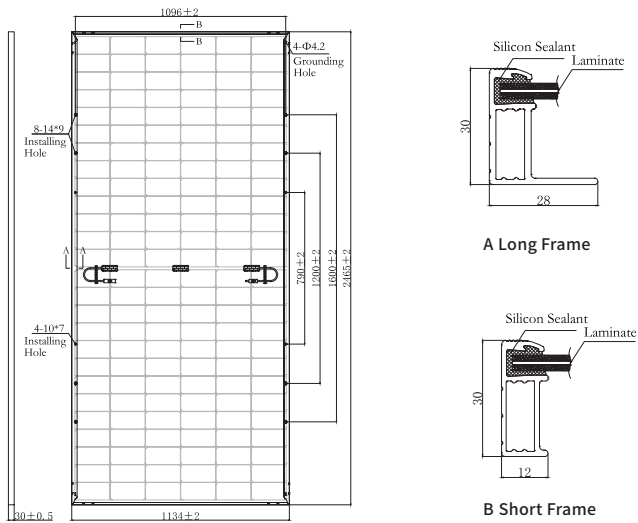
- IEC 61215, IEC 61730
- ISO 9001: Quality Management System
- ISO 14001: Environment Management System
- ISO 45001: Occupational Health and Safety Management System
- IEC 62716, IEC 61701: Ammonia, Salt mist corrosion test
- IEC TS 62804-1, IEC 60068-2-68: PID test, Dust and Sand test



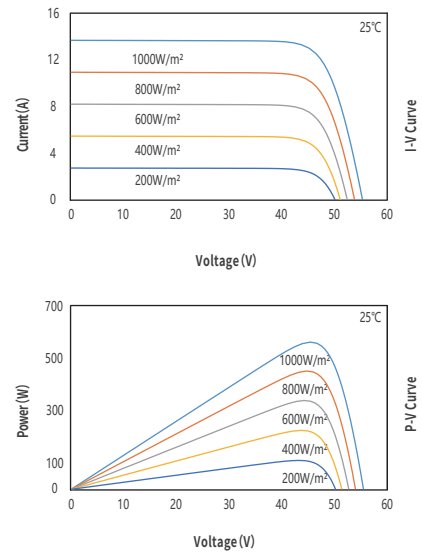
Leading product and power warranty

-2.00% 1st-year Degradation **-0.45%** Annual Degradation **15** Years materials and workmanship warranty **30** Years linear power warranty

Engineering Drawing (mm)



Characteristic Curves(595W)



Electrical Parameters (STC *)

| Nominal Max. Power(Pmax/W) | 580 | 585 | 590 | 595 | 600 |
|------------------------------|-------|-------|-------|-------|-------|
| Open Circuit Voltage(Voc/V) | 53.90 | 54.12 | 54.30 | 54.50 | 54.70 |
| Short Circuit Current(Isc/A) | 13.72 | 13.77 | 13.82 | 13.87 | 13.92 |
| Operating Voltage(Vmp/V) | 45.28 | 45.52 | 45.76 | 45.99 | 46.23 |
| Operating Current(Imp/A) | 12.81 | 12.85 | 12.89 | 12.94 | 12.98 |
| Efficiency(%) | 20.7 | 20.9 | 21.1 | 21.3 | 21.5 |

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

Mechanical Parameters

| Cell Type | P Type |
|-----------------|---|
| Module Size | 2465 × 1134 × 30mm |
| Glass Thickness | 2.0mm + 2.0mm |
| Module Weight | 34.5Kg |
| Output Cable | 4mm ² , cable length +400mm/-200mm (can be customized) |
| Connector | PV-DA01M2-XY (or customized) |
| Junction Box | IP68, 3 bypass diodes |
| Frame | Anodized aluminium alloy |

Electrical Parameters (NMOT *)

| Nominal Max. Power(Pmax/W) | 437 | 441 | 445 | 448 | 452 |
|------------------------------|-------|-------|-------|-------|-------|
| Open Circuit Voltage(Voc/V) | 51.52 | 51.73 | 51.90 | 52.09 | 52.28 |
| Short Circuit Current(Isc/A) | 11.07 | 11.11 | 11.15 | 11.19 | 11.23 |
| Operating Voltage(Vmp/V) | 42.31 | 42.55 | 42.78 | 42.97 | 43.20 |
| Operating Current(Imp/A) | 10.33 | 10.36 | 10.40 | 10.44 | 10.47 |

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) | +0.048%/°C |
| Open Circuit Voltage(Voc) | -0.260%/°C |
| Nominal Max. Power(Pmax) | -0.340%/°C |
| NMOT | 42 ± 2°C |

Backside Power Gain (For 595W)

| Power Gain | 10% | 15% | 20% | 25% | 30% |
|------------------------------|-------|-------|-------|-------|-------|
| Nominal Max. Power(Pmax/W) | 654.5 | 684.3 | 714.0 | 743.8 | 773.5 |
| Open Circuit Voltage(Voc/V) | 54.50 | 54.50 | 54.60 | 54.60 | 54.60 |
| Short Circuit Current(Isc/A) | 15.26 | 15.95 | 16.64 | 17.34 | 18.03 |
| Operating Voltage(Vmp/V) | 45.99 | 45.99 | 46.09 | 46.09 | 46.09 |
| Operating Current(Imp/A) | 14.23 | 14.88 | 15.49 | 16.14 | 16.78 |

Operating Parameters

| | |
|-------------------------|-------------------------------------|
| Max. System Voltage | DC1500V |
| Power Tolerance | 0 ~ +5 W |
| Operating Temperature | -40°C ~ +85°C |
| Max. Fuse Rated Current | 30A |
| Static Load | Front 5400Pa, Back 2400Pa |
| Packing Data | 36 pcs/Pallet; 144(20GP); 576(40HQ) |