

Bifacial Double Glass Module DAS-DH156NA

620W~645W

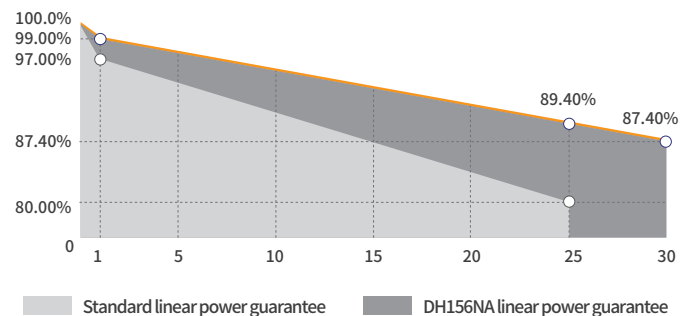
Key Features

- High Efficiency**
 Leading module efficiency in industry, up to 23.1%
- 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
645W	23.1%	0~+5W

Product and Quality Certifications

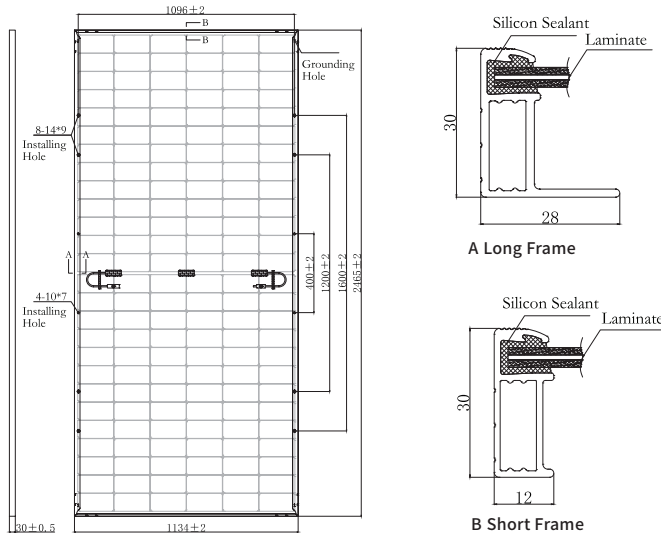
- IEC 61215, IEC 61730
- ISO 9001: Quality Management System
- ISO 14001: Environment Management System
- ISO 45001: Occupational Health and Safety Management System
- IEC 62716, IEC 61701: Ammonia, Salt mist corrosion test
- IEC TS 62804-1, IEC 60068-2-68: PID test, Dust and Sand test



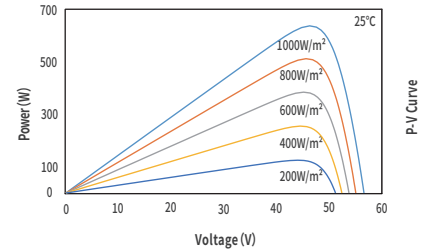
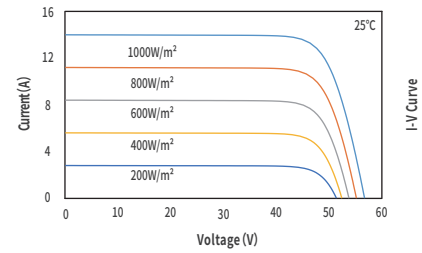
Leading product and power warranty

-1.00% 1st-year Degradation **-0.40%** Annual Degradation **15** Years materials and workmanship warranty **30** Years linear power warranty

Engineering Drawing (mm)



Characteristic Curves(635W)



Electrical Parameters (STC *)

Nominal Max. Power(Pmax/W)	620	625	630	635	640	645
Open Circuit Voltage(Voc/V)	55.60	55.74	55.88	56.01	56.18	56.36
Short Circuit Current(Isc/A)	14.19	14.27	14.35	14.42	14.48	14.53
Operating Voltage(Vmp/V)	45.93	46.09	46.26	46.42	46.59	46.78
Operating Current(Imp/A)	13.50	13.56	13.62	13.68	13.74	13.79
Efficiency(%)	22.2	22.4	22.5	22.7	22.9	23.1

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	2465 × 1134 × 30mm
Glass Thickness	2.0mm + 2.0mm
Module Weight	34.3Kg
Output Cable	4mm ² , cable length 300mm (can be customized)
Connector	MC4 Similar
Junction Box	IP68, 3 bypass diodes
Frame	Anodized aluminium alloy

Electrical Parameters (NMOT *)

Nominal Max. Power(Pmax/W)	471	475	478	482	486	490
Open Circuit Voltage(Voc/V)	53.24	53.37	53.51	53.63	53.79	53.96
Short Circuit Current(Isc/A)	11.44	11.50	11.57	11.62	11.67	11.71
Operating Voltage(Vmp/V)	43.25	43.41	43.56	43.72	43.87	44.05
Operating Current(Imp/A)	10.88	10.93	10.98	11.03	11.08	11.12

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

Backside Power Gain (For 635W)

Power Gain	10%	15%	20%	25%	30%
Nominal Max. Power(Pmax/W)	698.5	730.3	762.0	793.8	825.5
Open Circuit Voltage(Voc/V)	56.01	56.01	56.11	56.11	56.11
Short Circuit Current(Isc/A)	15.86	16.58	17.30	18.03	18.75
Operating Voltage(Vmp/V)	46.42	46.42	46.52	46.52	46.52
Operating Current(Imp/A)	15.05	15.73	16.38	17.06	17.75

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)