



Bifacial Double Glass Module DAS-DH156NA

625W~650W

Key Features



High Efficiency

Leading module efficiency in industry, up to 23.3%



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



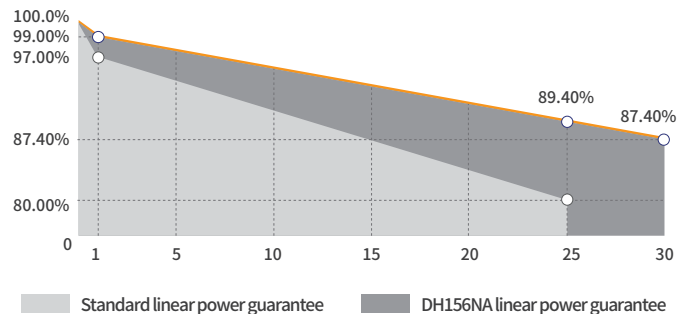
Extensive Application Scenes

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	23.3%	0~+5W

Product and Quality Certifications

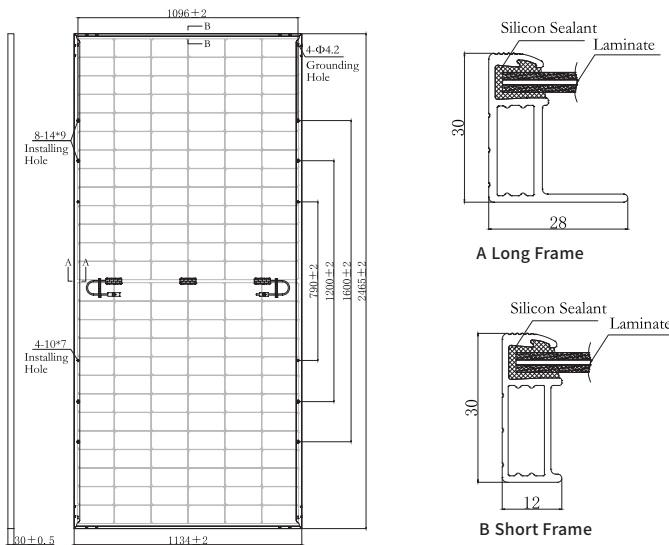
- IEC 61215, IEC 61730
- ISO 9001: Quality Management System
- ISO 14001: Environment Management System
- ISO 45001: Occupational Health and Safety Management System
- IEC 62716, IEC 61701: Ammonia, Salt mist corrosion test
- IEC TS 62804-1, IEC 60068-2-68: PID test, Dust and Sand test



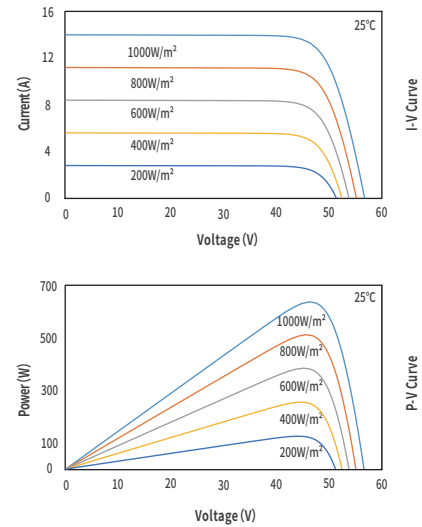
Leading product and power warranty

-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)	625	630	635	640	645	650
Open Circuit Voltage(Voc/V)	55.74	55.88	56.01	56.18	56.36	56.55
Short Circuit Current(Isc/A)	14.27	14.35	14.42	14.48	14.53	14.59
Operating Voltage(Vmp/V)	46.09	46.26	46.42	46.59	46.78	46.97
Operating Current(Imp/A)	13.56	13.62	13.68	13.74	13.79	13.84
Efficiency(%)	22.4	22.5	22.7	22.9	23.1	23.3

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	2465 × 1134 × 30mm
Glass Thickness	2.0mm + 2.0mm
Module Weight	34.3Kg
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 *)

Nominal Max. Power(Pmax/W)	475	478	482	486	490	493
Open Circuit Voltage(Voc/V)	53.37	53.51	53.63	53.79	53.96	54.15
Short Circuit Current(Isc/A)	11.50	11.57	11.62	11.67	11.71	11.76
Operating Voltage(Vmp/V)	43.41	43.56	43.72	43.87	44.05	44.23
Operating Current(Imp/A)	10.93	10.98	11.03	11.08	11.12	11.16

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
Bifaciality	80% ± 5%
Static Load	Front 5400Pa, Back 2400Pa
Packing Data	36 pcs/Pallet; 144(20GP); 576(40HQ)