

# DAON™ Pro Bifacial Double Glass Module

Module Type: DAS-DH156NA Module Power: 595W ~615W

<b>615W</b> Maximum Power Output	<b>22.0%</b> Maximum Module Efficiency	<b>0~+5W</b> Power Output Tolerance
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**-1.00%** 1st-year Degradation

**-0.40%** Annual Degradation

**15**  
YEAR

Materials and workmanship warranty

**30**  
YEAR

Linear power warranty

## Product and Quality Certifications

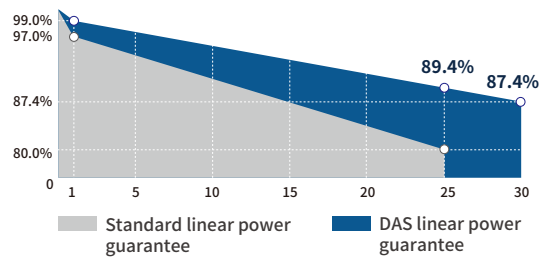
IEC 61215, IEC 61730

ISO 9001: 2015 Quality Management System

ISO 14001: 2015 Environment 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



## Key Features



### High Efficiency

Module efficiency leading in industry, up to 22.0%



### Double Sided Power Generation

Bifaciality is up to 80%, up to 30% more energy yield than conventional modules



### Excellent Appearance and Performance

Both side cell, symmetrical design, low risk of micro-crack



### Better Temperature Coefficient

Higher power output even under low-light environments like on cloudy or foggy days



### High Reliability

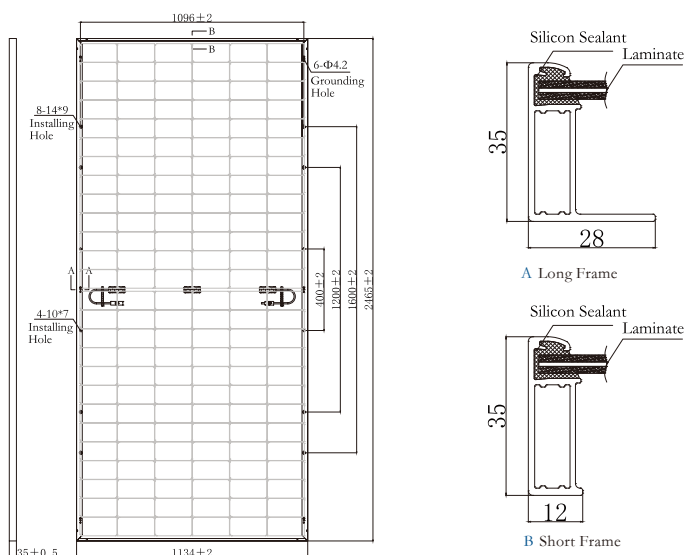
15 years materials warranty, 30 years power warranty



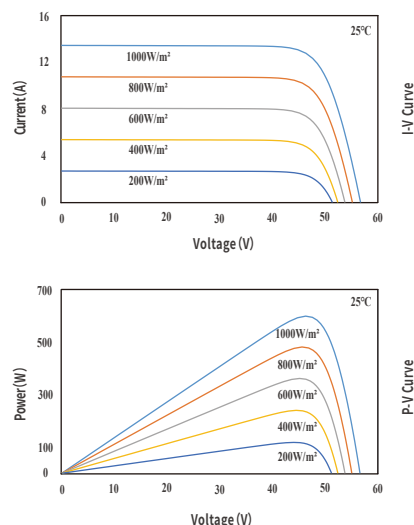
### Extensive Application Scenes

More extensive application scenes, such as BIPV, snow field, vertical installation, high humidity, strong wind and desert region

## Engineering Drawing (MM)



## Characteristic Curves(610W)



## Electrical Properties (STC \*)

Testing Condition	Front Side	Front Side	Front Side	Front Side	Front Side
Nominal Max. Power(Pmax/W)	595	600	605	610	615
Open Circuit Voltage(Voc/V)	54.90	55.04	55.18	55.32	55.46
Short Circuit Current(Isc/A)	13.79	13.87	13.95	14.03	14.11
Operating Voltage(Vmp/V)	45.08	45.25	45.42	45.59	45.76
Operating Current(Imp/A)	13.20	13.26	13.32	13.38	13.44
Efficiency(%)	21.3	21.5	21.6	21.8	22.0

STC \*: Irradiance = 1000 W/m<sup>2</sup>, Cell Temperature = 25°C, AM = 1.5

## Electrical Properties (NMOT \*)

Testing Condition	Front Side	Front Side	Front Side	Front Side	Front Side
Nominal Max. Power(Pmax/W)	446.6	450.0	453.4	456.9	460.4
Open Circuit Voltage(Voc/V)	51.80	51.90	52.00	52.20	52.30
Short Circuit Current(Isc/A)	11.12	11.18	11.25	11.31	11.38
Operating Voltage(Vmp/V)	43.30	43.30	43.40	43.50	43.60
Operating Current(Imp/A)	10.33	10.38	10.44	10.50	10.56

NMOT \*: Irradiance = 800 W/m<sup>2</sup>, Ambient Temperature = 20°C, AM = 1.5, Wind Speed = 1 m/s

## Back Power Gain (For 600W)

Power Gain	10%	15%	20%	25%	30%
Nominal Max. Power(Pmax/W)	660.0	690.0	720.0	750.0	780.0
Open Circuit Voltage(Voc/V)	55.30	55.40	55.50	55.60	55.70
Short Circuit Current(Isc/A)	15.09	15.74	16.39	17.03	17.68
Operating Voltage(Vmp/V)	46.60	46.70	46.80	46.90	47.00
Operating Current(Imp/A)	14.15	14.77	15.38	15.99	16.60

## Mechanical Parameters

Cell Type	N Type
Module Size	2465×1134×35mm
Glass Thickness	2.0mm
Module Weight	35.0Kg
Output Cable	4mm <sup>2</sup> , cable length 300mm (can be customized)
Connector	MC4 compatible
Junction Box	IP68, 3 bypass diodes
Frame	Anodized aluminium alloy

## 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

## Operating Parameters

Max. System Voltage	DC1500V
Power Tolerance	0 ~ +5 W
Operating Temperature	-40°C ~ +85°C
Max. Fuse Rated Current	30A
Front Static Load	Snow load 5400Pa, Wind load 2400Pa
Packing Data	31 pcs/Pallet; 124(20GP); 496(40HQ)

