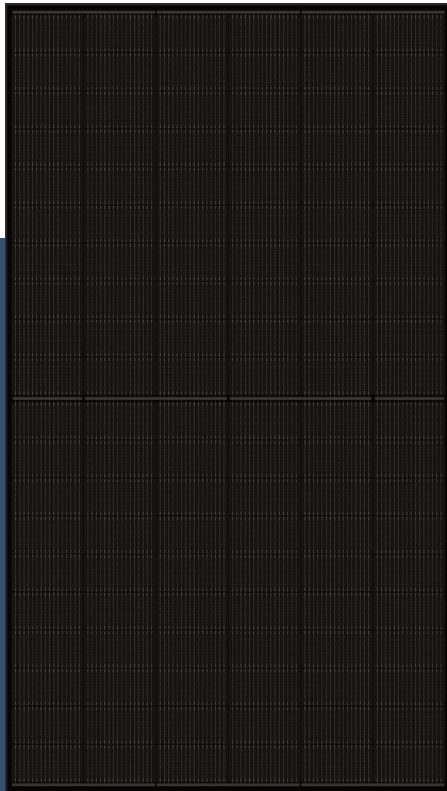


## Bifacial Double Glass Module (Black Pro)

DAS-DH120ND

# 500W~515W



### Key Features



#### High Efficiency

Leading module efficiency in industry, up to 22.8%



#### Excellent Appearance and Performance

Bifacial solar cell, symmetrical design, low risk of micro-crack



#### High Reliability

Passed 3\*IEC standard test, 25 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
<b>515W</b>	<b>22.8%</b>	<b>0~+5W</b>

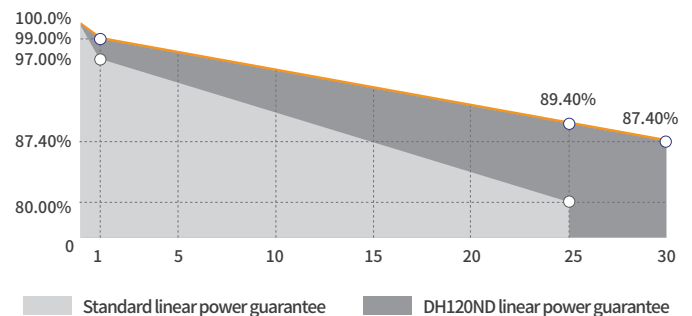
### Product and Quality Certifications

IEC 61215, IEC 61730

ISO 9001: Quality Management System

ISO 14001: Environment Management System

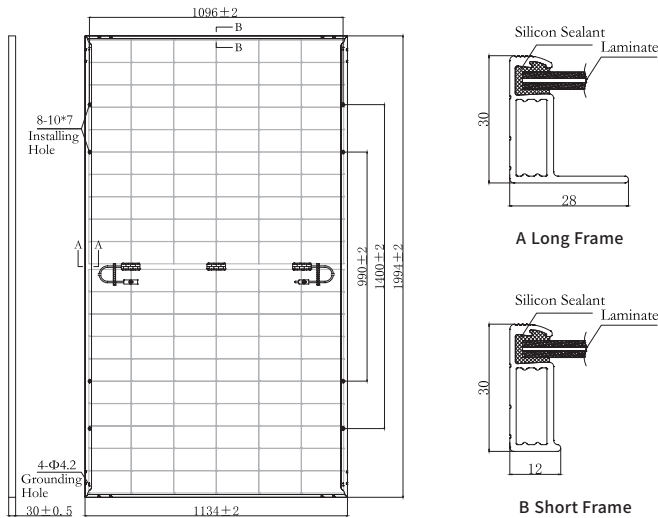
ISO 45001: Occupational Health and Safety Management System



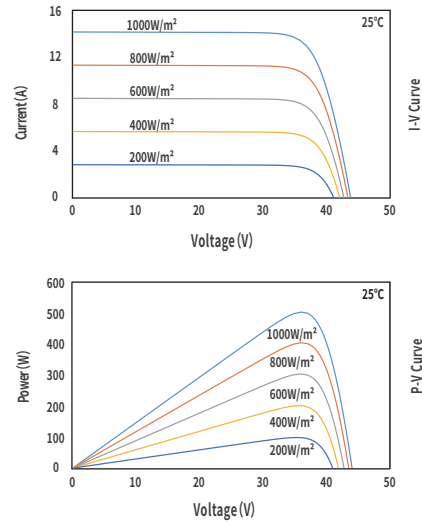
### Leading product and power warranty

**-1.00%** 1st-year Degradation **-0.40%** Annual Degradation **25** Materials and workmanship warranty **30** Linear power warranty

## Engineering Drawing (mm)



## Characteristic Curves(505W)



## Electrical Parameters (STC \*)

Nominal Max. Power(Pmax/W)	500	505	510	515
Open Circuit Voltage(Voc/V)	43.10	43.30	43.50	43.71
Short Circuit Current(Isc/A)	14.66	14.72	14.78	14.84
Operating Voltage(Vmp/V)	35.92	36.13	36.33	36.53
Operating Current(Imp/A)	13.92	13.98	14.04	14.10
Efficiency(%)	22.1	22.3	22.6	22.8

STC \*: Irradiance = 1000 W/m<sup>2</sup>, Cell Temperature = 25°C, AM = 1.5  
Test condition is based on the front side

## Mechanical Parameters

Cell Type	N Type
Module Size	1994 × 1134 × 30mm
Glass Thickness	2.0mm
Module Weight	28.0Kg
Output Cable	4mm <sup>2</sup> , cable length 1200mm (can be customized)
Connector	See note
Junction Box	IP68, 3 bypass diodes
Frame	Anodized aluminium alloy (Black)

Connector\*: 1.PV-DA01M2-XY 2.PV-ZH202B 3.PV-KST4-EVO2/xy\_UR,PV-KBT4-EVO2/xy\_UR  
4.PV-KST4-EVO2A/xy,PV-KBT4-EVO2A/xy  
5.PV-JK03M2/xy (Plug+Socket);PV-JK03M2/xy (Plug+Socket)

## Electrical Parameters (NMOT \*)

Nominal Max. Power(Pmax/W)	381	385	389	392
Open Circuit Voltage(Voc/V)	41.27	41.46	41.65	41.85
Short Circuit Current(Isc/A)	11.82	11.87	11.91	11.96
Operating Voltage(Vmp/V)	33.95	34.14	34.33	34.52
Operating Current(Imp/A)	11.22	11.27	11.32	11.37

NMOT \*: Irradiance = 800 W/m<sup>2</sup>, 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

## Electrical Parameters (BNPI \*)

Nominal Max. Power(Pmax/W)	550	555	560	565
Open Circuit Voltage(Voc/V)	43.10	43.30	43.50	43.71
Short Circuit Current(Isc/A)	16.21	16.28	16.35	16.41
Operating Voltage(Vmp/V)	35.92	36.13	36.33	36.53
Operating Current(Imp/A)	15.40	15.47	15.54	15.60

BNPI \*: front irradiance=1000W/m<sup>2</sup>, rear irradiance=135W/m<sup>2</sup>,  
Cell Temperature = 25°C, AM = 1.5  
Pmax bifaciality coefficient 80 ± 5%, Voc bifaciality coefficient 95 ± 5%  
Isc bifaciality coefficient 80 ± 5%

## Operating Parameters

Max. System Voltage	DC1500V
Power Measurement Tolerance	± 3%
Operating Temperature	-40°C ~ +85°C
Max. Fuse Rated Current	30A
Fire Safety Class	Class C
Static Load	Front 5400Pa, Back 2400Pa
Packing Data	36 pcs/Pallet; 180(20GP); 792(40HQ)