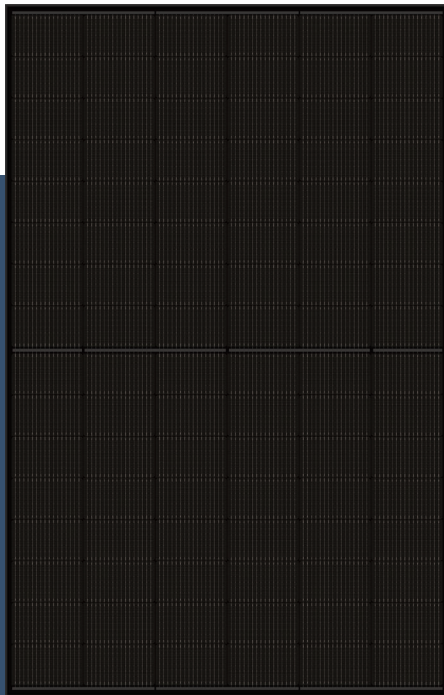


## Bifacial Double Glass Module (Black Pro)

DAS-DH96NE

# 440W~450W



### Key Features



#### High Efficiency

Leading module efficiency in industry, up to 22.5%



#### Excellent Appearance and Performance

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



#### High Reliability

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

**450W**

Maximum Module Efficiency

**22.5%**

Power Output Tolerance

**0~+5W**

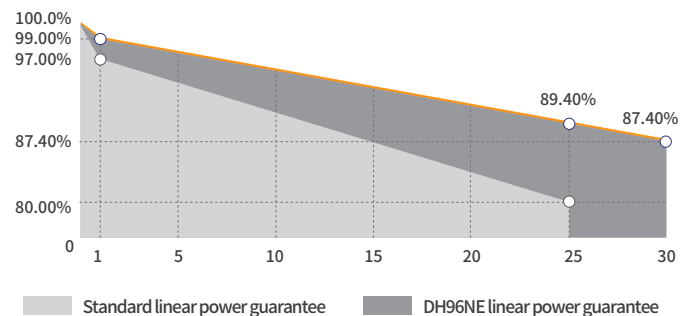
### Product and Quality Certifications

IEC 61215, IEC 61730

ISO 9001: Quality Management System

ISO 14001: Environment Management System

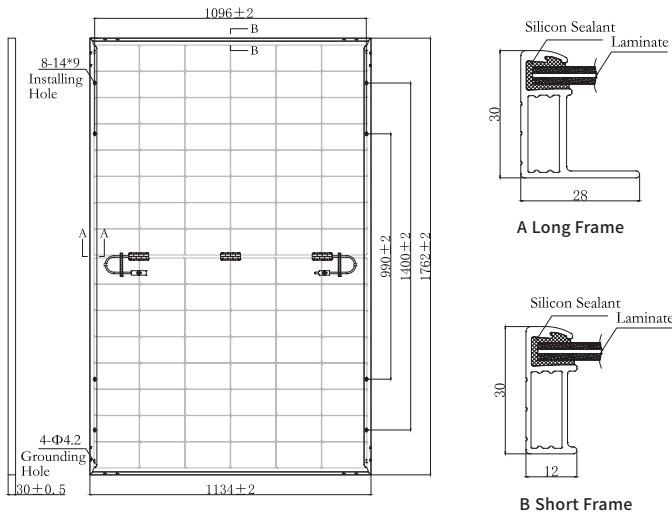
ISO 45001: Occupational Health and Safety Management System



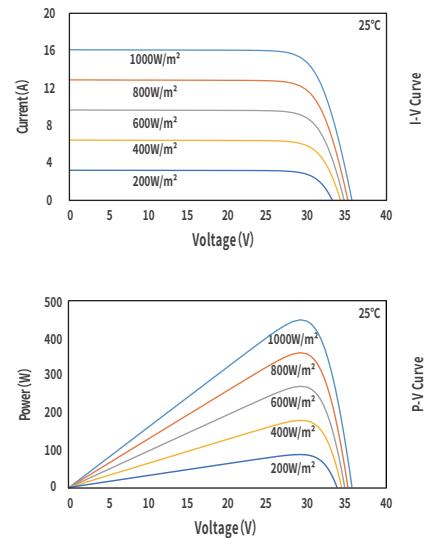
### Leading Product and Power Warranty

**-1.00%** 1st-year Degradation **-0.40%** Annual Degradation **25** Years materials and workmanship warranty **30** Years linear power warranty

## Engineering Drawing (MM)



## Characteristic Curves(445W)



## Electrical Parameters (STC \*)

Nominal Max. Power(Pmax/W)	440	445	450
Open Circuit Voltage(Voc/V)	34.92	35.11	35.30
Short Circuit Current(Isc/A)	15.94	16.01	16.08
Operating Voltage(Vmp/V)	29.65	29.83	30.02
Operating Current(Imp/A)	14.84	14.92	14.99
Efficiency(%)	22.0	22.3	22.5

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	1762 × 1134 × 30mm
Glass Thickness	1.6mm + 1.6mm
Module Weight	21.0Kg
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 (DAS Solar) 2.PV-ZH202B (Zhejiang Zhonghuan)  
3.PV-KST4-EVO2/xy\_UR,PV-KBT4-EVO2/xy\_UR (Staubli)  
4.PV-KST4-EVO2A/xy,PV-KBT4-EVO2A/xy (Staubli)  
5.PV-JK03M2/xy (Plug+Socket);PV-JK03M2/xy (Plug+Socket) (Jinko)

## Electrical Parameters (NMOT \*)

Nominal Max. Power(Pmax/W)	335	339	343
Open Circuit Voltage(Voc/V)	33.44	33.62	33.80
Short Circuit Current(Isc/A)	12.85	12.91	12.96
Operating Voltage(Vmp/V)	28.02	28.19	28.37
Operating Current(Imp/A)	11.96	12.03	12.08

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)	485	490	495
Open Circuit Voltage(Voc/V)	34.92	35.11	35.30
Short Circuit Current(Isc/A)	17.63	17.71	17.78
Operating Voltage(Vmp/V)	29.65	29.83	30.02
Operating Current(Imp/A)	16.42	16.51	16.59

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; 216(20GP); 936(40HQ)