

## Monofacial Double Glass Module (Black Frame)

DAS-DH108NE.A

# 490W~515W



### Key Features



#### High Efficiency

Leading module efficiency in industry, up to 23.2%



#### Excellent Appearance and Performance

symmetrical design, low risk of micro-crack



#### High Reliability

Passed 3\*IEC standard test, 25 years materials warranty, 30 years power warranty



#### Low NMOT

As low as 42°C, improving the power generation efficiency



#### 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

## 515W

Maximum Module Efficiency

## 23.2%

Power Output Tolerance

## 0~+5W

### Product and Quality Certifications

IEC 61215, IEC 61730

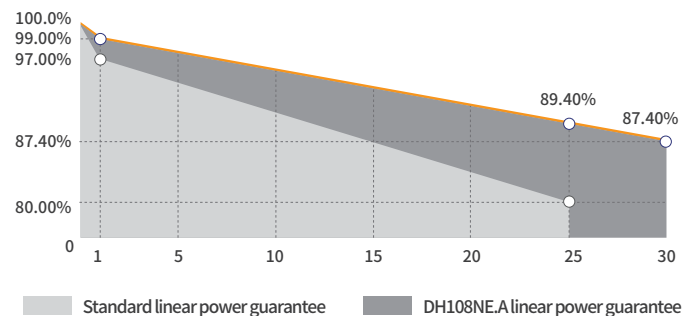
ISO 9001: Quality Management System

ISO 14001: Environment Management System

ISO 45001: Occupational Health and Safety Management System

IEC 62716, IEC 61701: Ammonia, Salt mist corrosion test

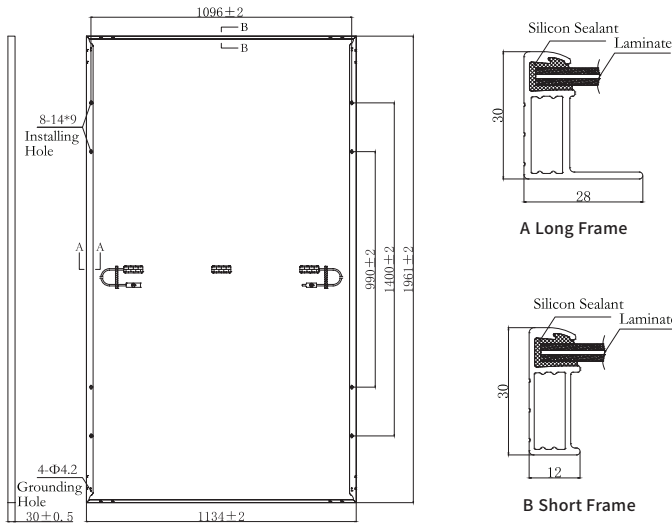
IEC TS 62804-1, IEC 60068-2-68: PID test, Dust and Sand test



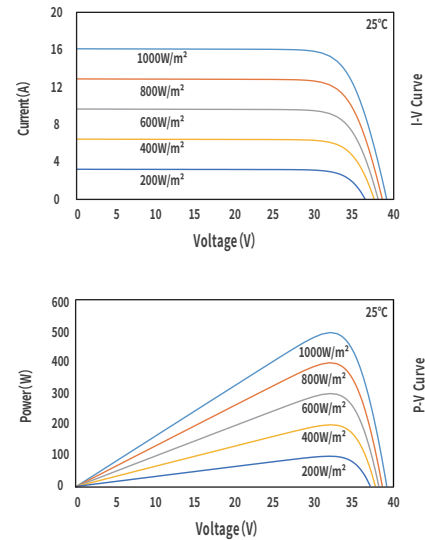
### Leading product and power warranty

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

## Engineering Drawing (mm)



## Characteristic Curves(500W)



## Electrical Parameters (STC \*)

Nominal Max. Power(Pmax/W)	490	495	500	505	510	515
Open Circuit Voltage(Voc/V)	39.33	39.52	39.70	39.88	40.08	40.26
Short Circuit Current(Isc/A)	15.91	15.98	16.05	16.11	16.17	16.22
Operating Voltage(Vmp/V)	33.14	33.32	33.50	33.67	33.87	34.07
Operating Current(Imp/A)	14.79	14.86	14.93	15.00	15.06	15.12
Efficiency(%)	22.0	22.3	22.5	22.7	22.9	23.2

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	1961×1134×30mm
Glass Thickness	2.0mm + 2.0mm
Module Weight	27.1Kg
Output Cable	4mm <sup>2</sup> , cable length 1200mm (can be customized)
Connector	Original MC4 Series
Junction Box	IP68, 3 bypass diodes
Frame	Anodized aluminium alloy (Black)

## Electrical Parameters (NMOT \*)

Nominal Max. Power(Pmax/W)	373	377	381	385	389	392
Open Circuit Voltage(Voc/V)	37.66	37.84	38.01	38.19	38.38	38.55
Short Circuit Current(Isc/A)	12.83	12.88	12.94	12.99	13.03	13.08
Operating Voltage(Vmp/V)	31.31	31.48	31.65	31.82	32.01	32.19
Operating Current(Imp/A)	11.92	11.98	12.04	12.09	12.14	12.19

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

## 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

## Temperature Coefficients

Short Circuit Current(Isc)	+0.045%/°C
Open Circuit Voltage(Voc)	-0.25%/°C
Nominal Max. Power(Pmax)	-0.280%/°C
NMOT	42±2°C

## Packing Data

Packing Type	20'GP	40'HQ
Piece/Pallet	36	36
Pallet/Container	5	24
Piece/Container	180	864