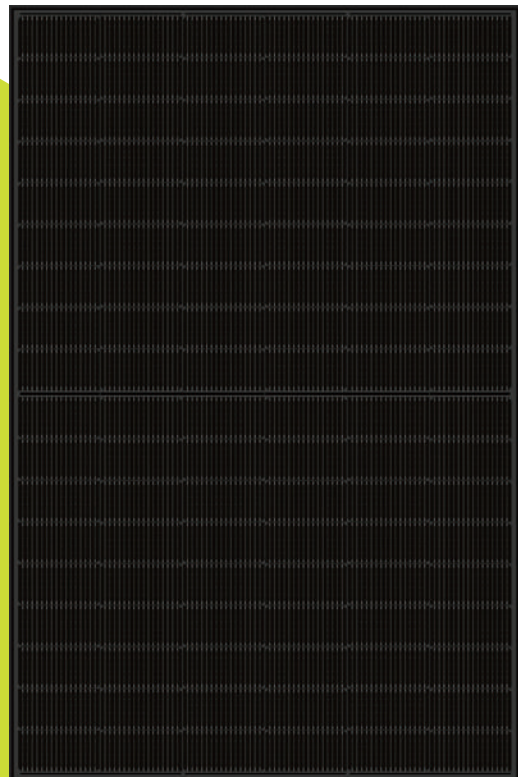


N Type  
Bifacial Double glass Monofacial  
Module(Black Frame)

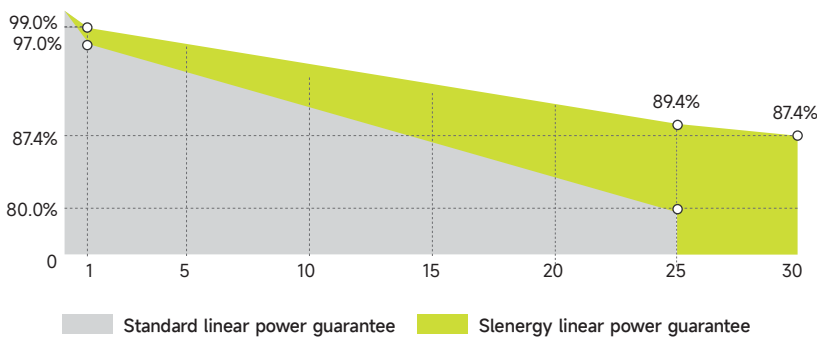
425W

## Key Features

- High Efficiency**  
Leading module efficiency in industry, up to 21.8%
- Double Sided Power Generation**  
Bifaciality is up to 80%, up to 30% more energy yield than conventional modules
- High Reliability**  
25 years materials warranty, 30 years power warranty
- Better Temperature Coefficient**  
Higher power output even under low-light environment like on cloudy or foggy days
- Excellent Appearance and Performance**  
Both Side cell, symmetrical design, low risk of micro-crack
- 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>425W</b>	<b>21.8%</b>	<b>0~+5W</b>



## Product and Quality Certifications

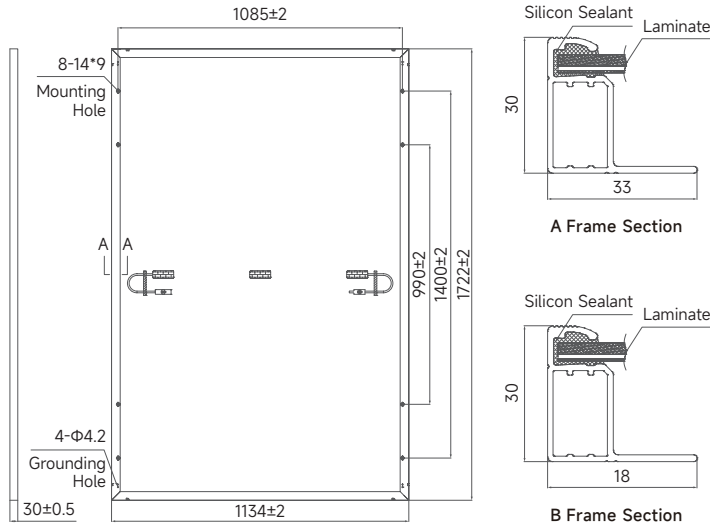
- IEC 61215, IEC 61730
- ISO 9001: Quality Management System
- ISO 14001: Environment Management System
- ISO 45001: Occupational Health and Safety Management System
- IEC 62716, IEC 61701: Ammonia, Salt mist corrosion test
- IEC TS 62804-1, IEC 60068-2-68: PID test, Dust and Sand test



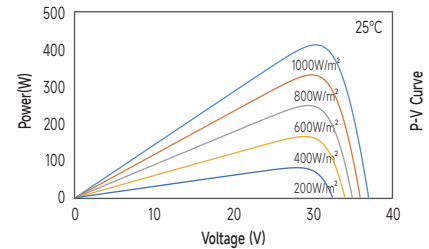
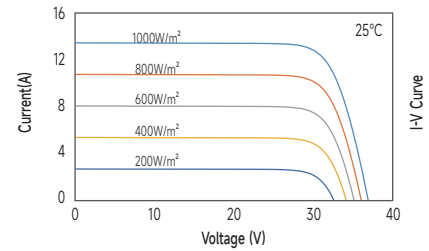
## Leading product and power warranty

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

## Engineering Drawing (mm)



## Characteristic Curves



## Electrical Parameters (STC \*)

Nominal Max. Power(Pmax/W)	425
Open Circuit Voltage(Voc/V)	38.54
Short Circuit Current(Isc/A)	13.79
Operating Voltage(Vmp/V)	32.35
Operating Current(Imp/A)	13.14
Efficiency(%)	21.8

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

## Electrical Parameters (NMOT\*)

Nominal Max. Power(Pmax/W)	319.0
Open Circuit Voltage(Voc/V)	36.46
Short Circuit Current(Isc/A)	11.11
Operating Voltage(Vmp/V)	30.28
Operating Current(Imp/A)	10.54

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)	-0.300%/°C
NMOT	42±2°C

## Mechanical Parameters

Cell Type	N Type
Module Size	1722X1134X30mm
Glass Thickness	1.6mm
Module Weight	20.5kg
Output Cable	4mm <sup>2</sup> , cable length 1200mm
Connector	MC4 compatible
Junction Box	IP68, 3 bypass diodes
Frame	Anodized aluminium alloy (Black)

## Operating Parameters

Max. System Voltage	DC1500V
Power Tolerance	0~+5W
Operating Temperature	-40°C~+85°C
Max. Fuse Rated Current	30A
Front Static Load	Snow load 5400Pa, Wind load 2400Pa

## Packing Data

Packing Type	20'GP	40'HQ
Piece/Pallet	36	36
Pallet/Container	6	26
Piece/Container	216	936