P Type | N Type

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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

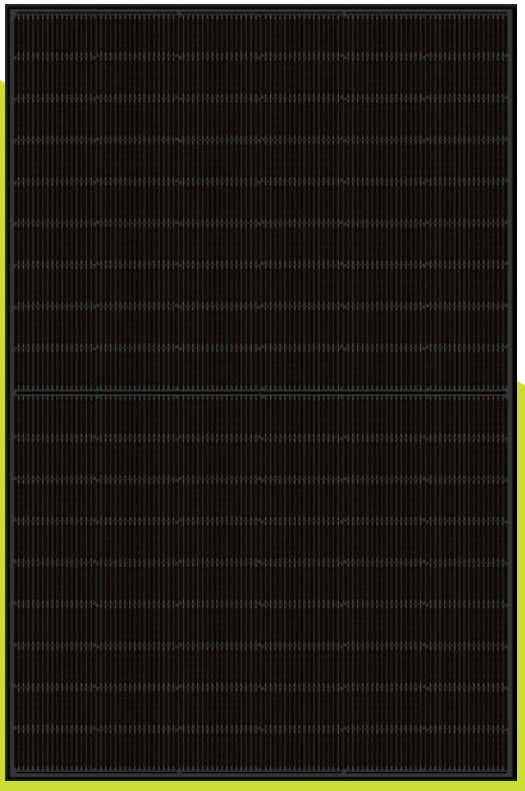
High Reliability
15 years materials warranty, 30 years power warranty

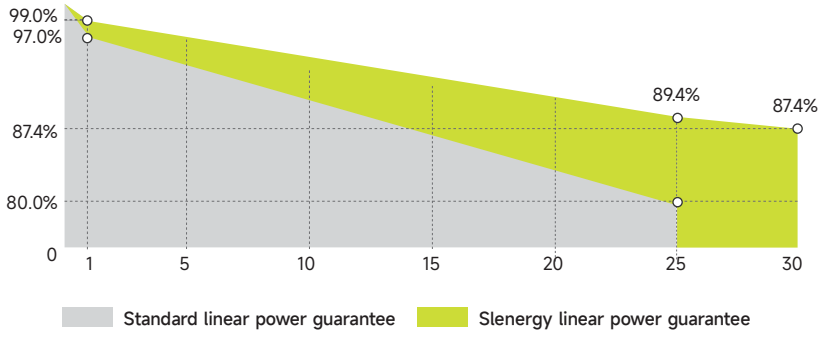
Better Temperature Coefficient
Higher power output even under low-light environment like on cloudy or foggy days

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
425W	21.8%	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 **15** Years Material and workmanship Warranty **30** Years Linear power warranty

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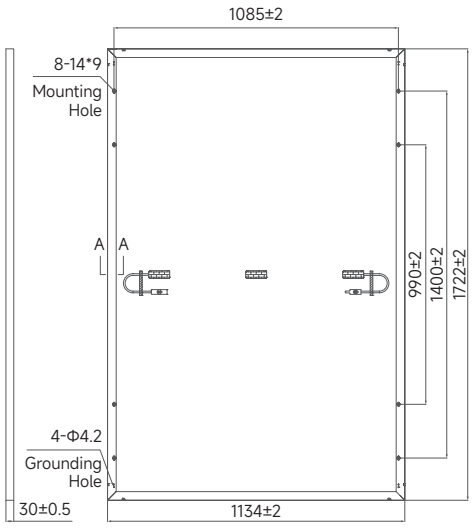
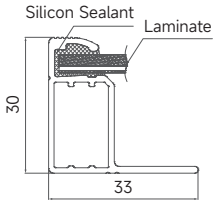
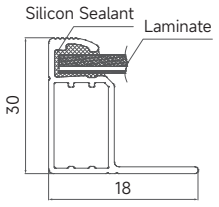
Engineering Drawing (mm)



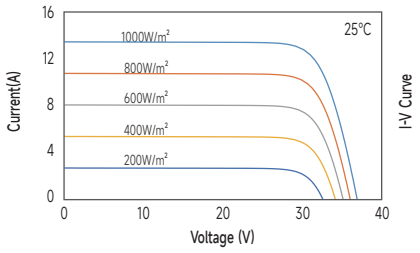


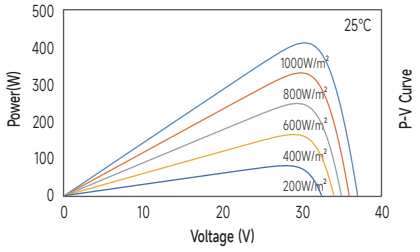
A Frame Section



B Frame Section

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/m², Cell Temperature=25°C, AM = 1.5
Test condition is based on the front side

Mechanical Parameters

Cell Type	N Type
Module Size	1722X1134X30mm
Glass Thickness	1.6mm
Module Weight	20.5kg
Output Cable	4mm², cable length 1200mm
Connector	MC4 compatible
Junction Box	IP68, 3 bypass diodes
Frame	Anodized aluminium alloy (Black)

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/m², 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~+5W
Operating Temperatue	-40°C~+85°C
Max. Fuse Rated Current	30A
Front Static Load	Snow load 5400Pa, Wind load 2400Pa

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

Packing Data

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

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Information may be subject to change without notice during product improving.