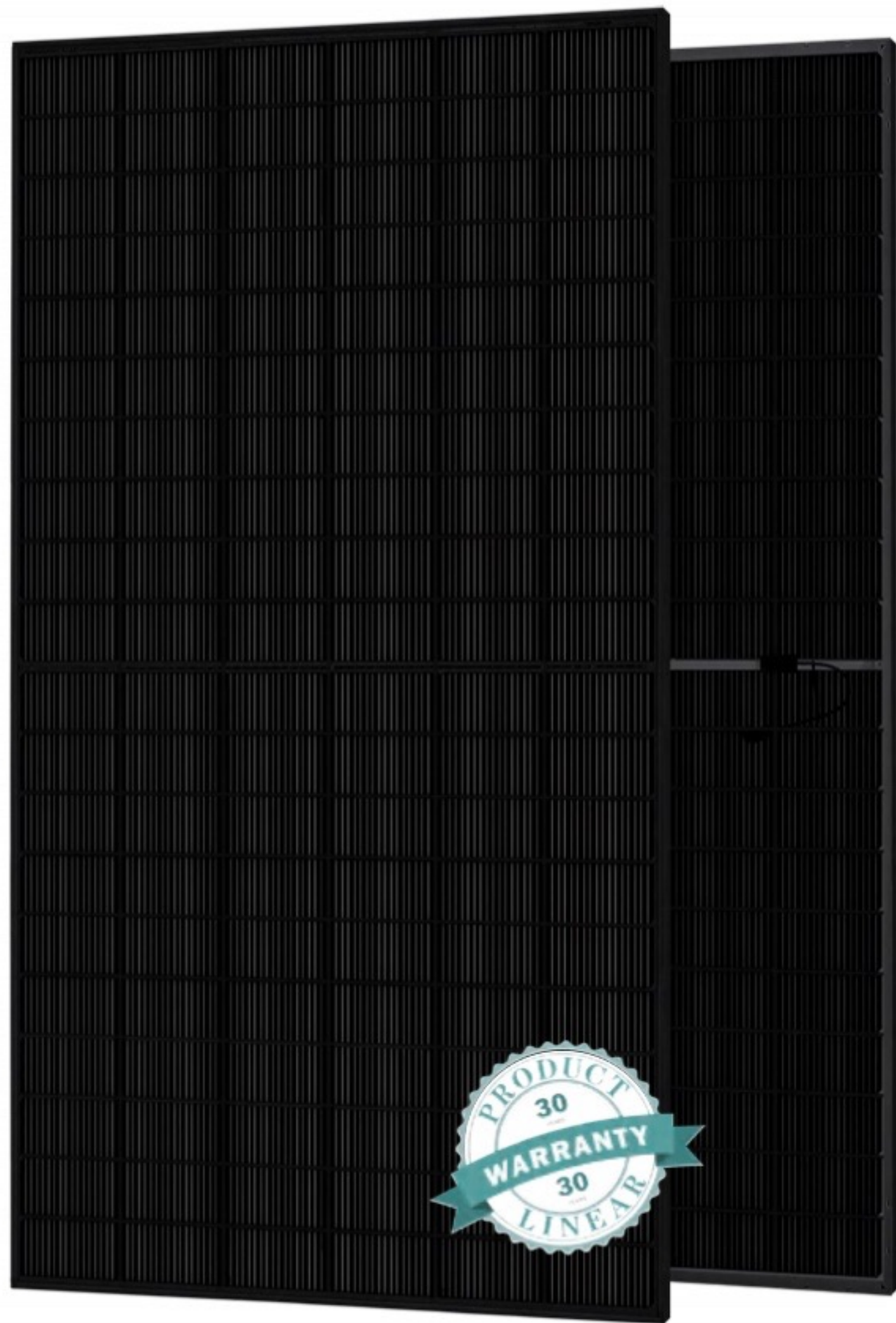


Mono N-Type 182mm 120 Cells

N-Topcon Double Glass

500 WP



APPLICATIONS >>



On-grid residential roof-tops



On-grid commercial/ industrial roof-tops



New Technology Tailored for European Distribution

N-TOPCON

- Full Black



30-year Lifespan

Wide range of applications for severe weather with a service life of over 30 years.



Lower Degradation

N-type solar technology gains slower power Degradation and excellent low-light performance.



Elegance

Full-black aesthetics, the best choice for BAPV. More excellent for snowy environments.



Adaptability

1/2-cut low-current cell technology adaptable to mainstream European inverters.



Safety

Higher fire safety, more suitable for high density residential areas.



High Power

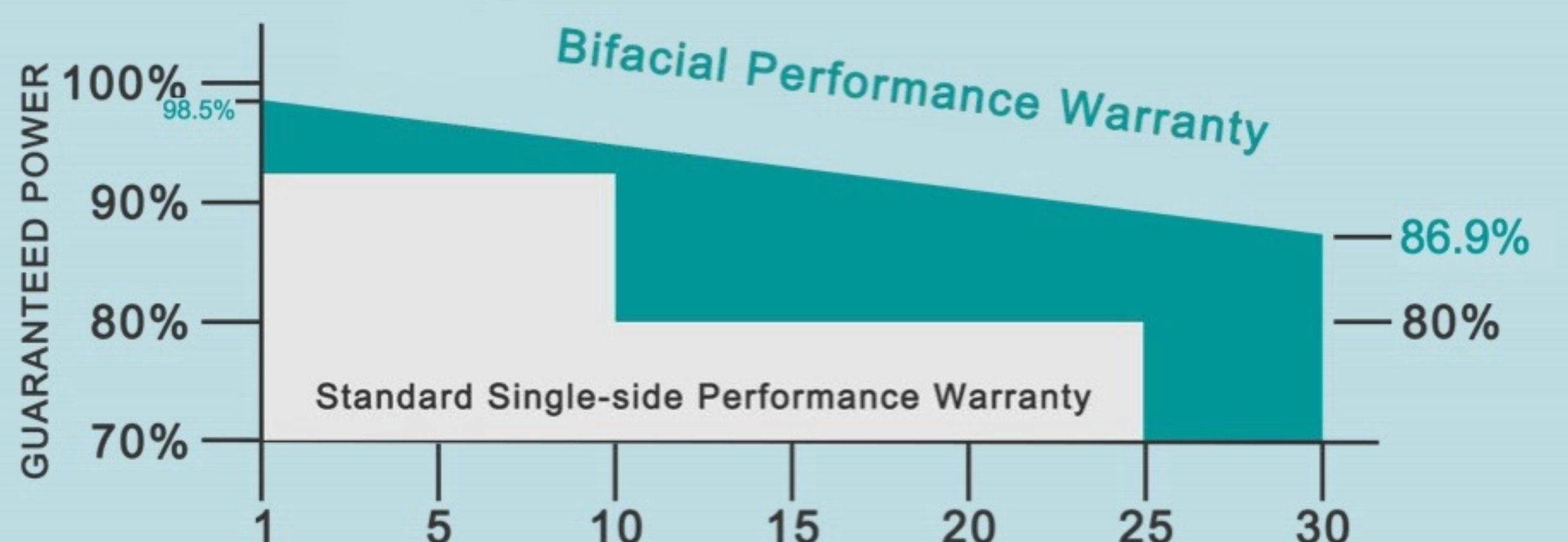
Bifacial power generation with 5%-30% increase in output for different conditions.

MAXIMUM EFFICIENCY

22.1%

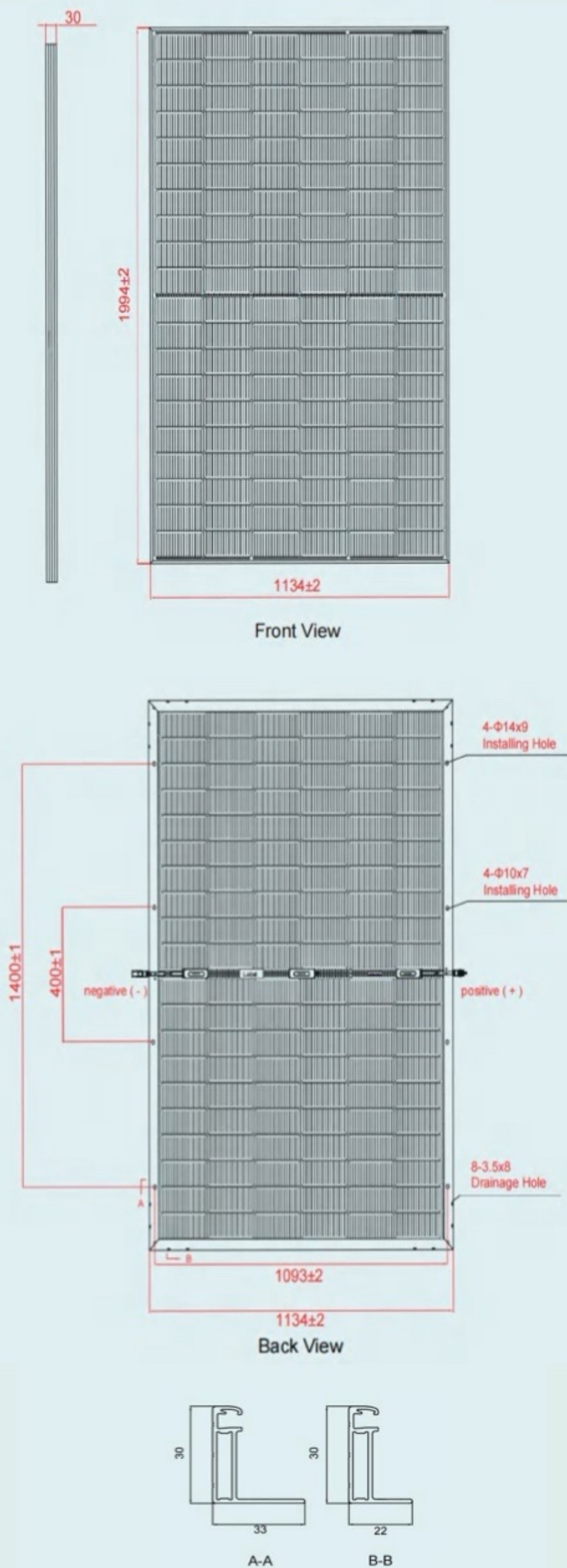
POSITIVE POWER TOLERANCE

0 ~+5W



N-Type Double Glass

DIMENSIONS OF PV MODULE (mm)



ELECTRICAL DATA (STC)

Parameter	Value	Parameter	Value
Peak Power Watts- P_{MAX} (Wp)*	500	Maximum Power- P_{MAX} (Wp)	378
Power Tolerance- P_{MAX} (W)	0 ~ +5	Maximum Power Voltage- V_{MPP} (V)	34.60
Maximum Power Voltage- V_{MPP} (V)	36.60	Maximum Power Current- I_{MPP} (A)	10.93
Maximum Power Current- I_{MPP} (A)	13.67	Open Circuit Voltage- V_{OC} (V)	40.90
Open Circuit Voltage- V_{OC} (V)	43.20	Short Circuit Current- I_{SC} (A)	11.70
Short Circuit Current- I_{SC} (A)	14.51		
Module Efficiency η_m (%)	22.10		

STC: Irradiance 1000W/m², Cell Temperature 25°C, Air Mass AM1.5.
*Measuring tolerance: ±3%.

NOCT: Irradiance at 800W/m², Ambient Temperature 20°C, Wind Speed 1m/s.

Electrical characteristics with different rear side power gain

5% Maximum Power- P_{MAX} (Wp)5	525
% Module Efficiency η_m (%)	23.21
15% Maximum Power- P_{MAX} (Wp)	575
15% Module Efficiency η_m (%)	25.42
25% Maximum Power- P_{MAX} (Wp)	625
25% Module Efficiency η_m (%)	27.63

Power Bifaciality: 80±5%.

MECHANICAL DATA

Solar Cells	Monocrystalline, N-Topcon
Cell Orientation	120 cells (6 x 20)
Module Dimensions	1994 x 1134 x 30 mm
Weight	29.7 kg
Front Glass	2.0 mm, High Transmission, AR Coated Heat Strengthened Glass
Encapsulant material	POE
Back Glass	2.0 mm, Heat Strengthened Glass
Frame	30 mm Black, Anodized aluminium alloy
J-Box	IP 68 rated (3 bypass diodes)
Cables	Photovoltaic Technology Cable 4.0 mm ² 1500 mm (+) / 1500 mm (-) or Customized Length
Connector	MC4 Compatible

*Please refer to regional datasheet for specific connector.

TEMPERATURE RATINGS

NOCT(Nominal Operating Cell Temperature)	44°C (±2°C)
Temperature Coefficient of P_{MAX}	-0.320% /°C
Temperature Coefficient of V_{OC}	-0.270% /°C
Temperature Coefficient of I_{SC}	+0.048% /°C

APPLICATION ENVIRONMENT

Operational Temperature	-40~+85°C
Maximum System Voltage	1500V DC
Max Series Fuse Rating	(IEC) 25A
Mechanical Performance	P 5400 Pa/N 2400 Pa

(Do not connect Fuse in Combiner Box with two or more strings in parallel connection)

WARRANTY

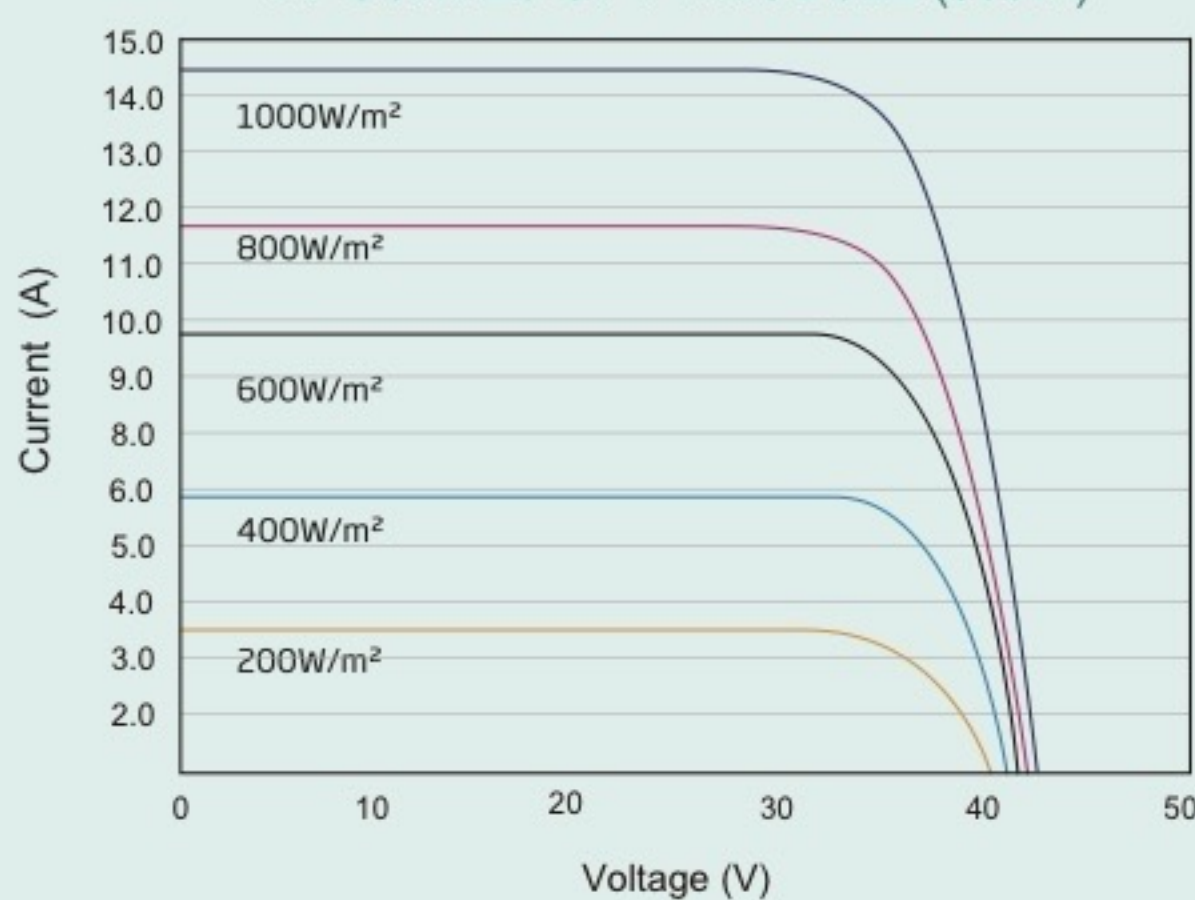
30 Years Product Warranty
30 Years Power Warranty
1.5% First Year Degradation
0.4% Annual Power Degradation

(Please refer to product warranty for details)

PACKAGING CONFIGURATION

Modules per pallet: 36 pieces
Modules per 40' container: 720 pieces

I-V CURVES OF PV MODULE (500W)



P-V CURVES OF PV MODULE (500W)

