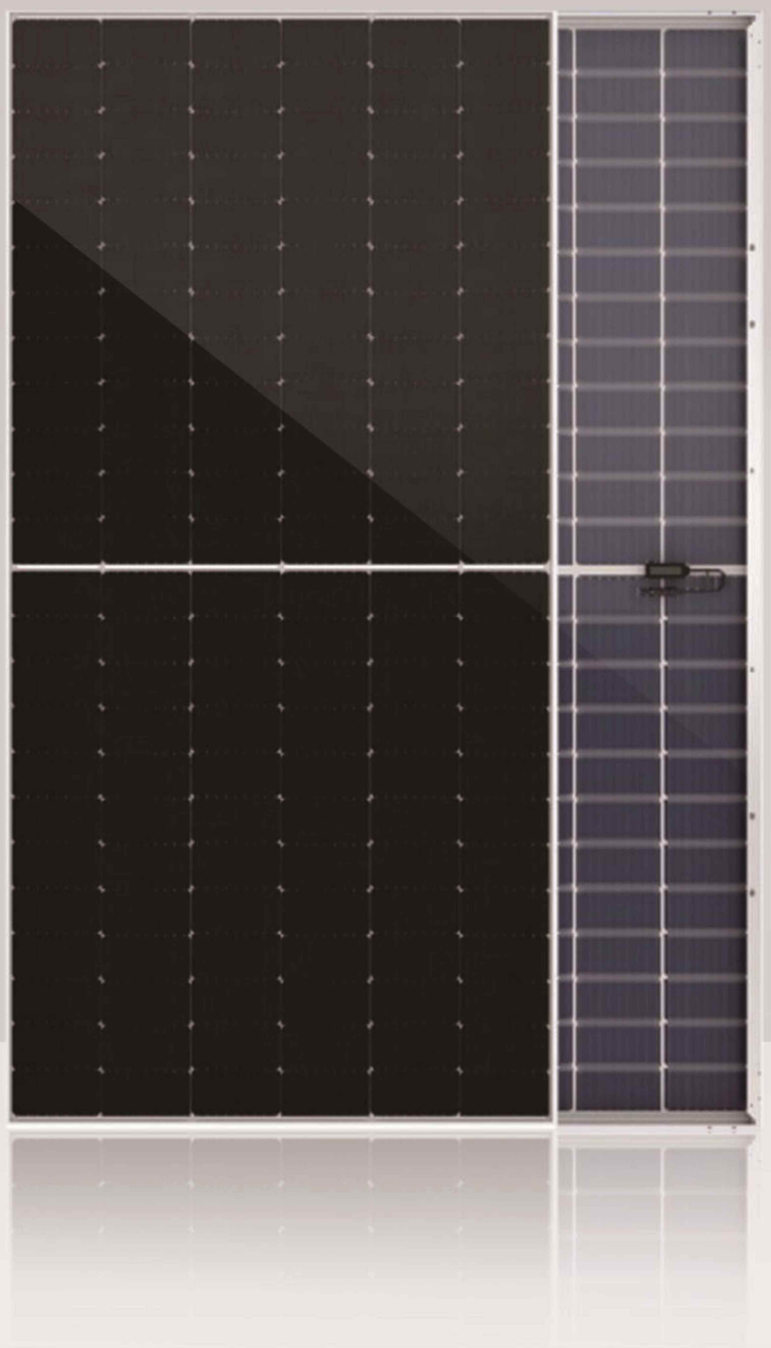


GRANKIA

N-TOPCon

575W - 585W

BIFACIAL DOUBLE GLASS MBB HALF CELL SOLAR MODULE

12-year product warranty

30-year linear power output warranty

575-585W /Output Power

22.65% /Maximum Efficiency

0~+5W /Power Tolerance

CERTIFICATES

*ISO9001:2015
*ISO14001:2015
*ISO45001:2018
*TUV、CE、SGS、INMETRO、ROHS、IEC

KEY FEATURES

N-TOPCon Half Cell
The power of Half-cell solar panel increases, and the hot spot temperature reduces because of lower working current

Extended Wind and Snow Load Tests
Module certified to withstand extreme wind (2400 Pascal) and snow loads(5400 Pascal)

High PID Resistant
Advanced cell technology and qualified materials lead to high PID resistant

Current Sorting Process
System output maximized by reducing mismatch losses up to 2% with modules sorted & packaged by amperage

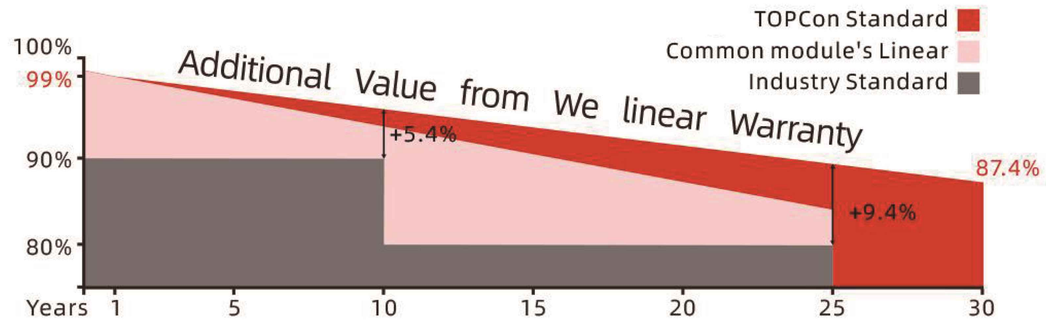
Positive Tolerance
Positive tolerance of up to 0~+5W delivers higher outputs reliablity

1500V
Backsheet and junction box supporting 1500V system

QUALITY GUARANTEE

≤1% The first year attenuation

0.4% Annual Degradation over 30 years

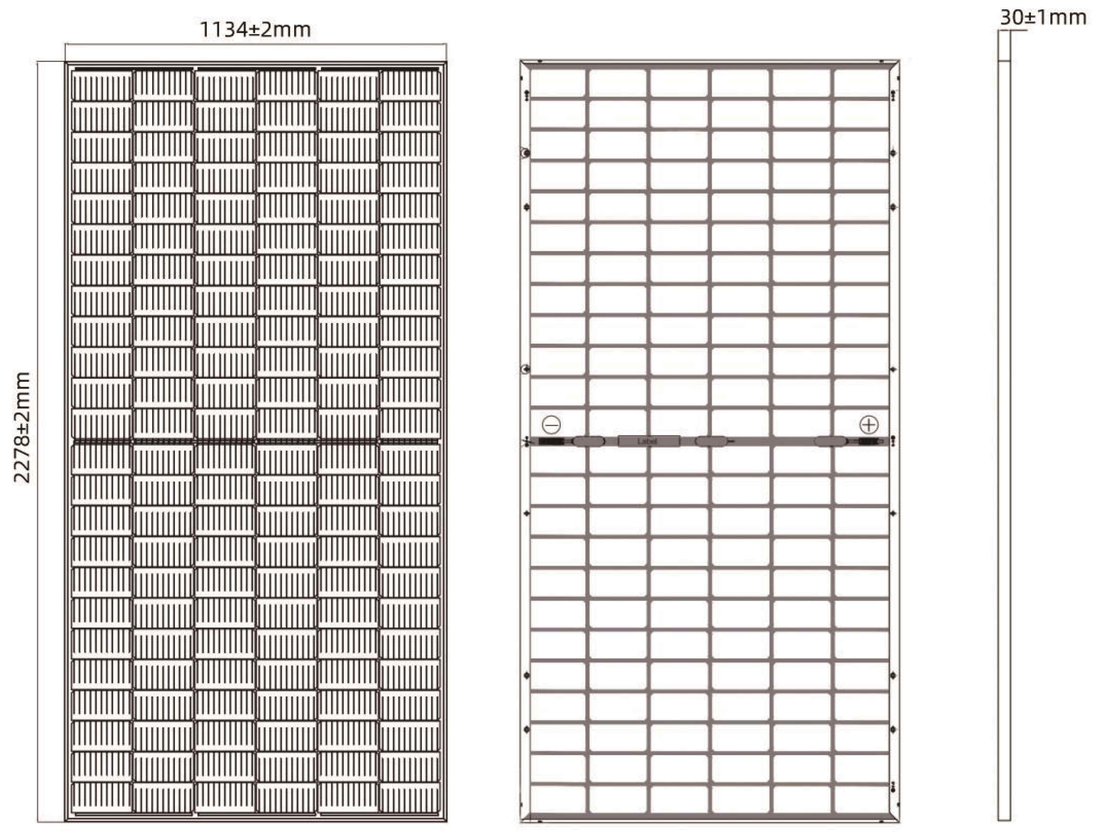


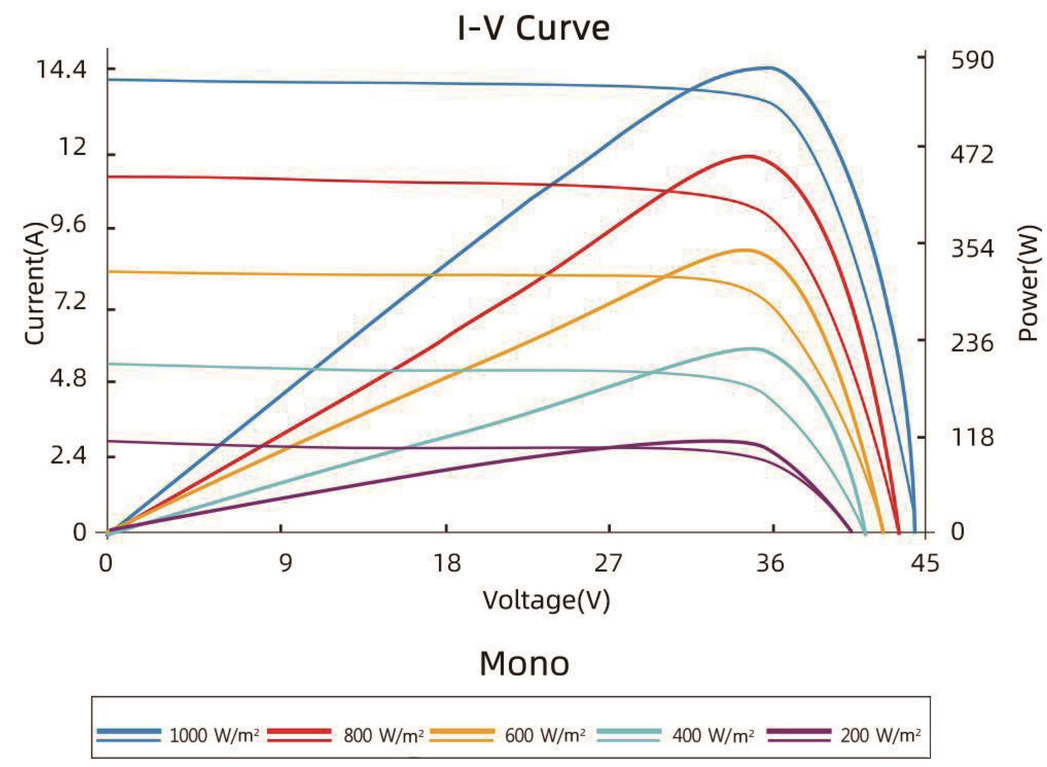
- 30-year linear power output warranty
- 12-year product warranty

GRANKIA Electric (Guangdong) Co., Ltd.
Email: sales@grankia.com | Web: https://www.grankia.com

575W - 585W

ENGINEERING DRAWING





Excellent performance under weak light conditions: at an irradiation intensity of 800W/m²(AM 1.5, 25℃), 95.5% or higher of the STC efficiency(1000W/m²) is achieved.

ELECTRICAL CHARACTERISTICS

STC	GT575W-144M	GT580W-144M	GT585W-144M
MAXIMUM POWER(PMAX)	575W	580W	585W
Optimum Operating Voltage(Vmp)	42.22V	42.37V	42.52V
Optimum Operating Current(Imp)	13.62A	13.69A	13.76A
Open Circuit Voltage(Voc)	50.88V	51.02V	51.16V
Short Circuit Current(Isc)	14.39A	14.47A	14.55A
Module Efficiency	22.30%	22.45%	22.65%
Operating Module Temperature	-40℃ to +85℃		
Maximum System Voltage	1500V DC（IEC）		
Power Tolerance	0~+5W		
STC	lrradiance 1000 W/m², module temperature 25℃, AM=1.5; Best in Class AAA solar simulator (IEC 60904-9) used		

MECHANICAL CHARACTERISTICS

Solar Cell	182mm MBB N-TOPCon
No. of Cells	144（6x12x2）
Dimensions	2278mmx1134mmx30mm
Weight	31.80kg±3%
Front/Back Glass	2.0mm/2.0mm
Frame	Anodized Aluminium Alloy
Junction box	Ip68 rated
Output Cables	TÜV (2Pfg1169:2007)
	4.0 mm²(0.006 inches²), 300mm/Customized
Connectors	MC4 connectors

TEMPERATURE CHARACTERISTICS

NOCT	45±2℃
Temperature Coefficient of Pmax	-0.240%/℃
Temperature Coefficient of Voc	-0.220%/℃
Temperature Coefficient of Isc	-0.047%/℃

PACKING CONFIGURATION (30MM)

Per Pallet	36Pieces
Per Container (40' HQ)	720Pieces

Note: Specifications subject to technical changes and tests,
We reserves the right of final interpretation.

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