





**NES144/575W**  
**182MM N-TOPCon**  
**MBB Half Cell Solar Panel**


## 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
- 

**Positive Tolerance**  
 Positive tolerance of up to 0~+5W delivers higher outputs reliability
- 

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

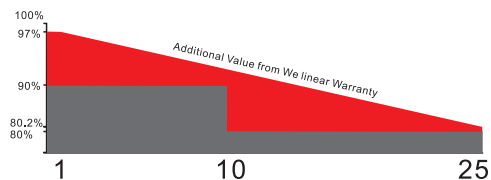
**Current Sorting Process**  
 System output maximized by reducing mismatch losses up to 2% with modules sorted & packaged by amperage
- 

**Extended Wind and Snow load tests**  
 Module certified to withstand extreme wind (2400 Pascal) and snow loads(5400 Pascal)
- 

**1500V**  
 Backsheet and junction box supporting 1500V system

## Quality Guarantee

Industry-Leading Warranty Based on Nominal Power



- \* 25-year linear power output warranty
- \* 10-year product warranty
- \* The first year attenuation  $\leq 2\%$

- \* MBB solar cells, Low resistance loss and higher conversion efficiency
- \* Double EL test before and after lamination, highly control product defects
- \* Solar panel classified by current, to improve system performance

## Certificates

- \* ISO9001:2015
- \* ISO14001:2015
- \* ISO45001:2018
- \* TÜV, CE, CQC, SGS, INMETRO, DEKRA



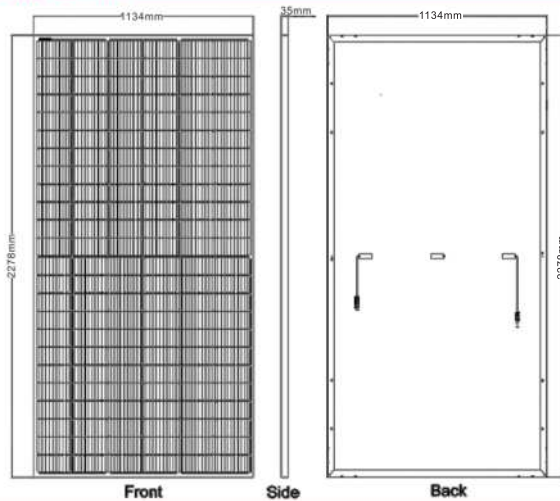
# NES144/575W 182MM N-TOPCon MBB Half Cell Solar Panel

## Electrical Characteristics

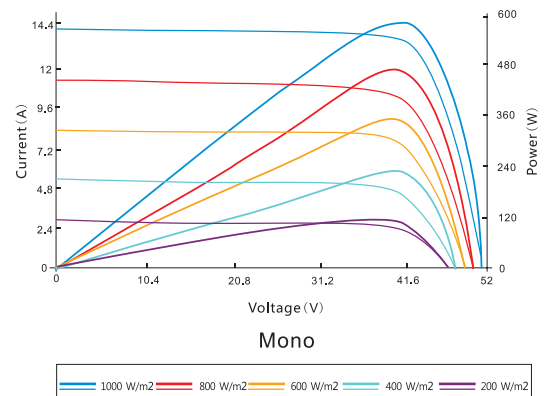
STC	NES144-7-575M
Maximum Power(Pmax)	575W
Optimum Operating Voltage(Vmp)	42.69V
Optimum Operating Current(Imp)	13.47A
Open Circuit Voltage(Voc)	50.56V
Short Circuit Current(Isc)	14.11A
Module Efficiency	22.26%
Operating Module Temperature	-40°C to +85°C
Maximum System Voltage	1500V DC (IEC)
Power Tolerance	0~+5W

STC Irradiance 1000 W/m<sup>2</sup>, module temperature 25°C, AM=1.5; Best in Class AAA solar simulator (IEC 60904-9) used

## Engineering Drawing



## I-V Curve



Excellent performance under weak light conditions: at an irradiance intensity of 800W/m<sup>2</sup> (AM 1.5, 25°C), 95.5% or higher of the STC efficiency(1000W/m<sup>2</sup>) is achieved.

## Mechanical Characteristics

Solar Cell	182mm MBB Monocrystalline silicon cells
No. of Cells	144(6x12x2)
Dimensions	2278mmx1134mmx35mm
Weight	28.40kg±3%
Front Glass	3.2mm(0.13 inches) tempered glass
Frame	Anodized aluminium alloy
Junction Box	Ip68 rated
Output Cables	TÜV (2Pfg1169:2007) 4.0 mm <sup>2</sup> (0.006 inches <sup>2</sup> ), 300mm/Customized
Connectors	MC4 connectors

## Temperature Characteristics

NOCT	45±2°C
Temperature Coefficient of Pmax	-0.300%/°C
Temperature Coefficient of Voc	-0.250%/°C
Temperature Coefficient of Isc	0.046%/°C

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