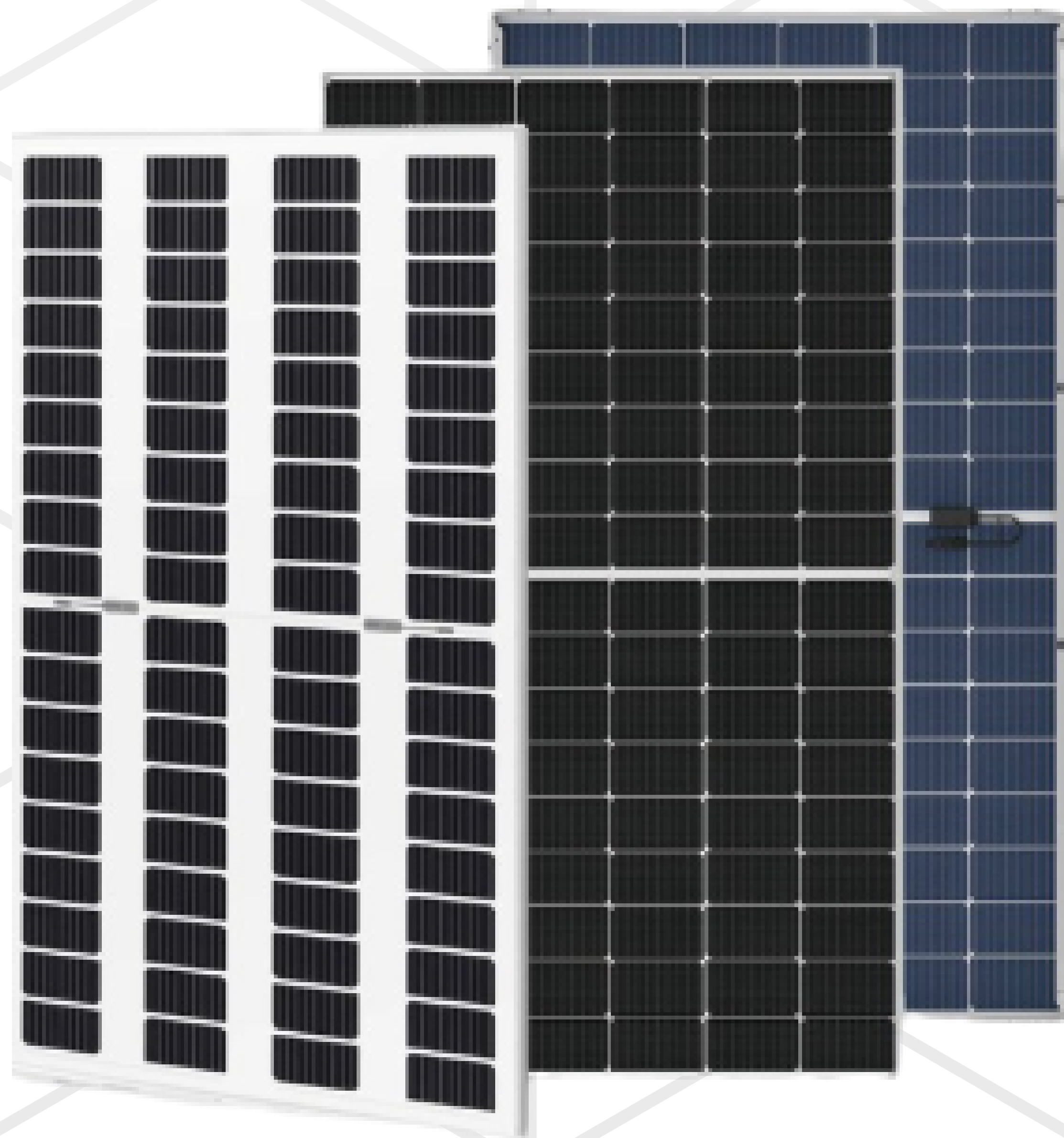




HELIOS

INDUSTRIES



SOLAR PANEL COLLECTION

PV MODULE

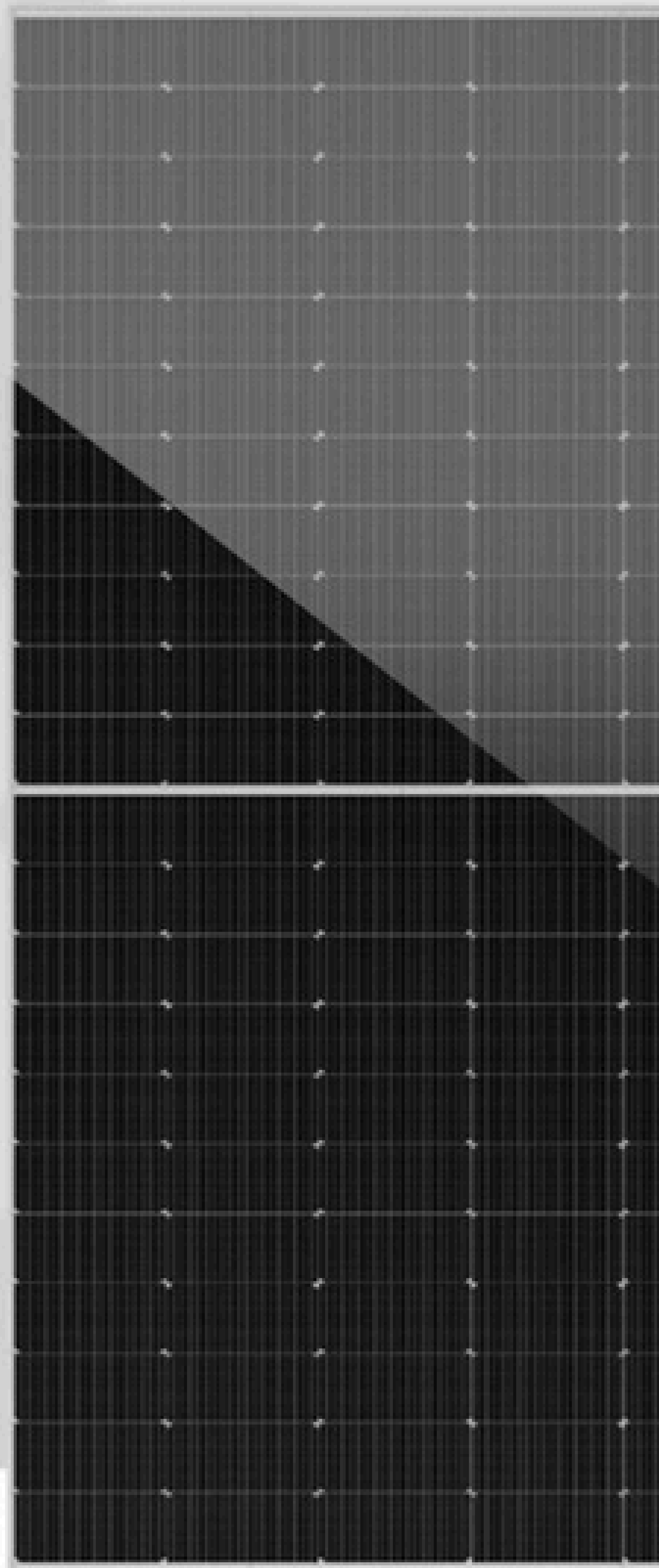
Product Brochure

One-stop solar
and Energy storage system solution provider

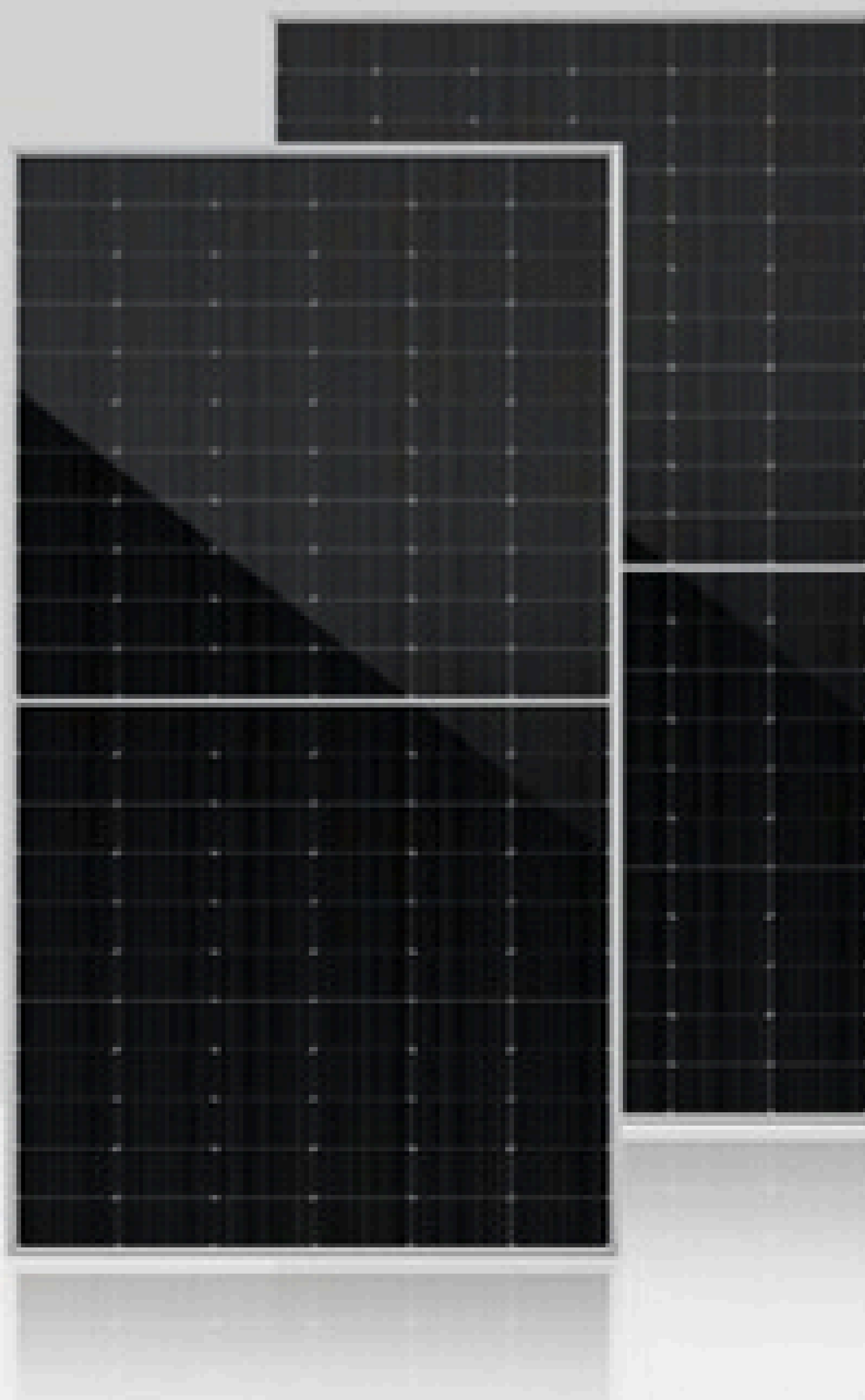
HJT-Series

N-TOPCon-series

PERC-Series



With the continuous development of the solar industry, the demand for high-efficiency, high-stability solar modules is increasing. Our PV modules are designed to meet these requirements, providing a reliable and efficient energy solution for various applications. The modules are made of high-quality silicon wafers and are protected by a durable, anti-reflective coating. They are also designed to be easy to install and maintain, making them a popular choice for residential and commercial solar systems.



HJT

NES132/700-725W

Bifacial Double Glass MBB Half Cell Solar Panel

12-year product warranty

30-year linear power output warranty

700-725W /Output Power

23.30% /Maximum Efficiency

0~+5W /Power Tolerance

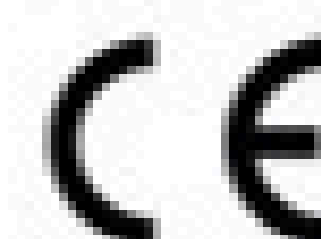
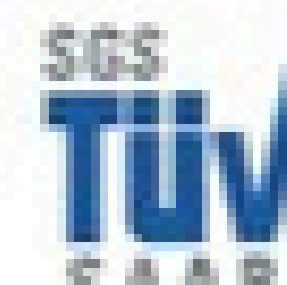
Certificates

*ISO9001:2015

*ISO14001:2015

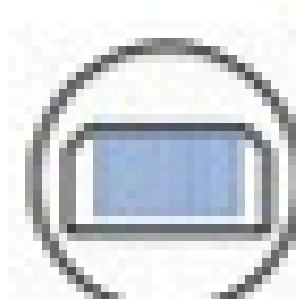
*ISO45001:2018

*TUV, CE, SGS, INMETRO, ROHS, IEC



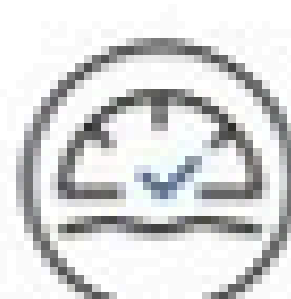
RoHS

Key Features



HJT Half Cell

The power of half-cell solar panel increases, and the hot spot temperature reduces because of lower working current



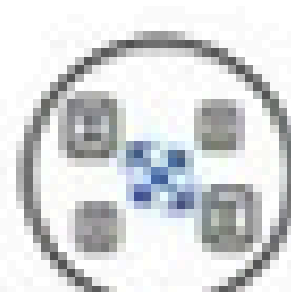
Extended Wind and Snow Load Tests

Module certified to withstand extreme wind (2400 Pascals) and snow loads (2400 Pascals)



High PID Resistant

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



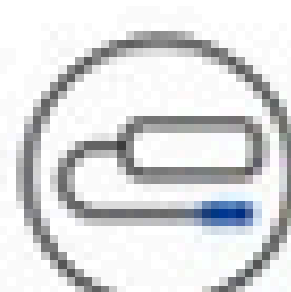
Current Sorting Process

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 reliability



1500V

Backsheet and junction box supporting 1500V system

Quality Guarantee

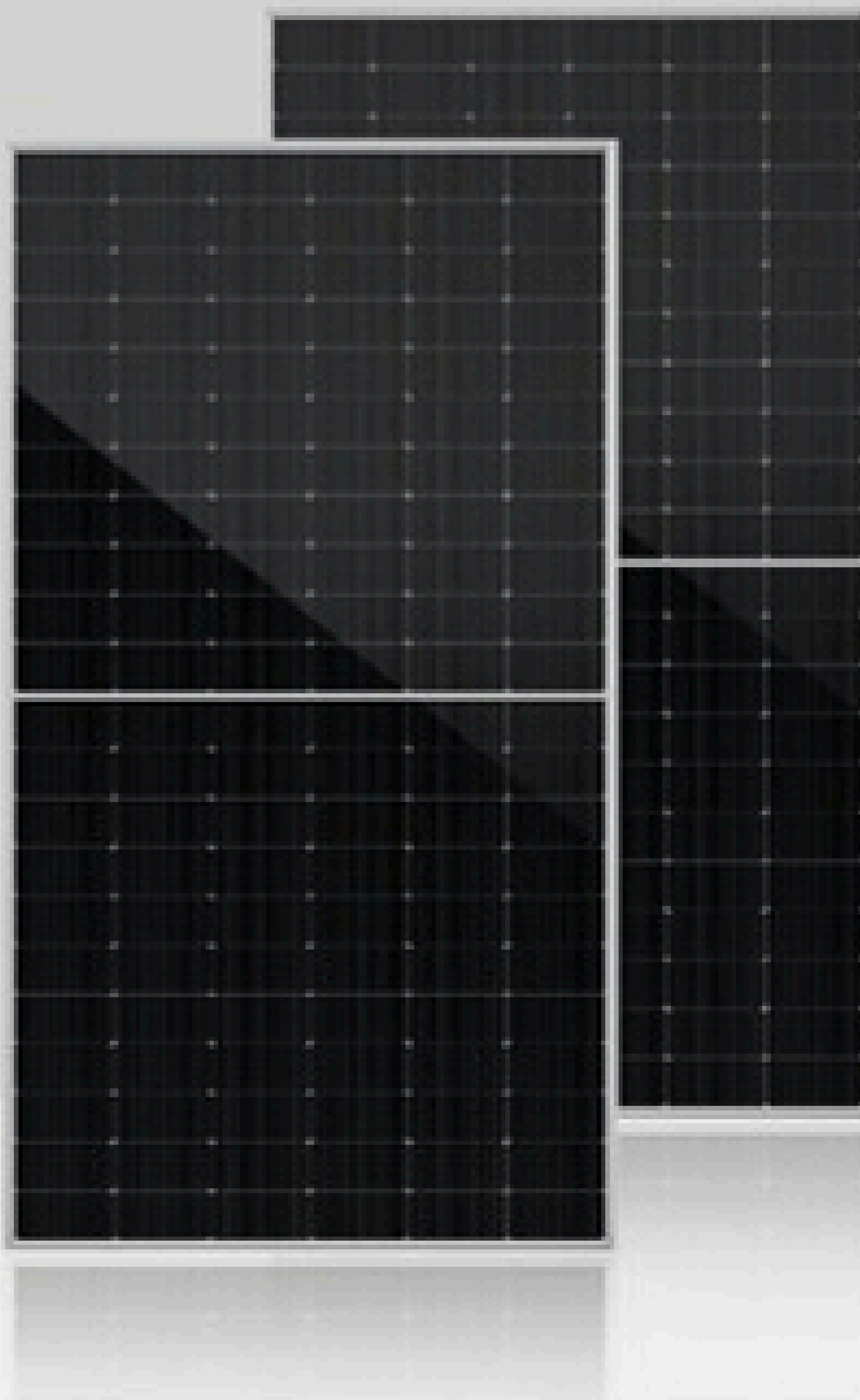
≤1% The first year attenuation

0.4% Annual Degradation over 30 years



● 30-year linear power output warranty

● 12-year product warranty



HJT

NES132/675-710W

Bifacial Double Glass MBB Half Cell Solar Panel

12-year product warranty

30-year linear power output warranty

675-710W /Output Power

22.86% /Maximum Efficiency

0~+5W /Power Tolerance

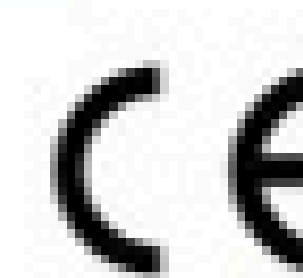
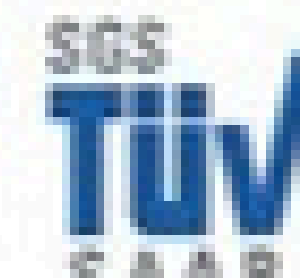
Certificates

*ISO9001:2015

*ISO14001:2015

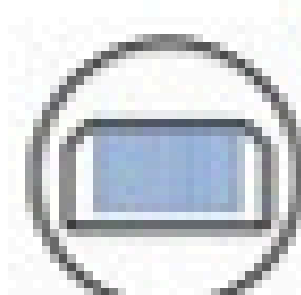
*ISO45001:2018

*TUV, CE, SGS, INMETRO, ROHS, IEC



RoHS

Key Features



HJT Half Cell

The power of half-cell solar panel increases, and the hot spot temperature reduces because of lower working current



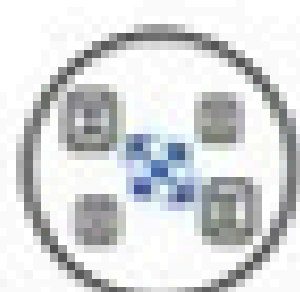
Extended Wind and Snow Load Tests

Module certified to withstand extreme wind (2400 Pascals) and snow loads (5400 Pascals)



High PID Resistant

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



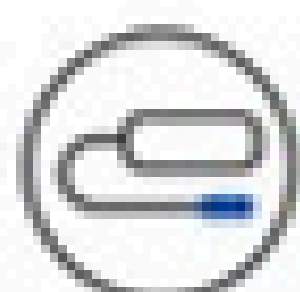
Current Sorting Process

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 reliability



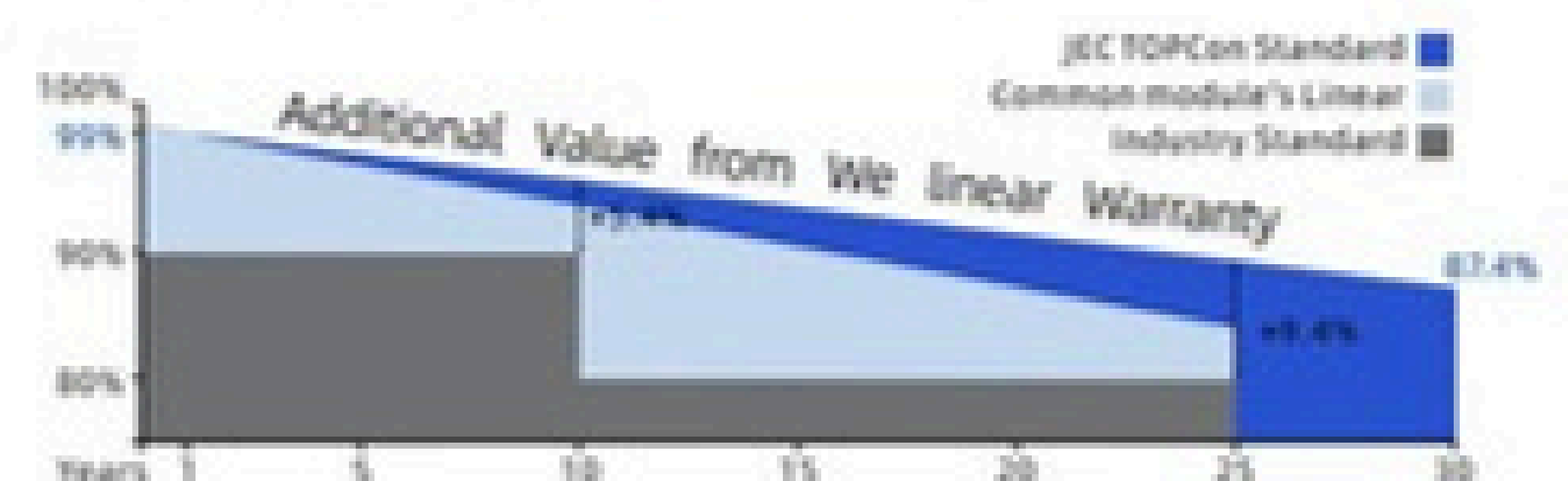
1500V

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

HJT

NES110/565-585W

Bifacial Double Glass MBB Half Cell Solar Panel

12-year product warranty

30-year linear power output warranty

565-585W /Output Power

22.40% /Maximum Efficiency

0~+5W /Power Tolerance

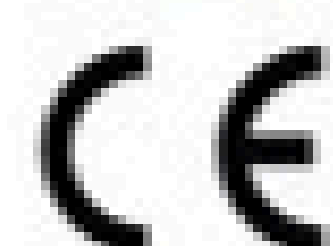
Certificates

*ISO9001:2015

*ISO14001:2015

*ISO45001:2018

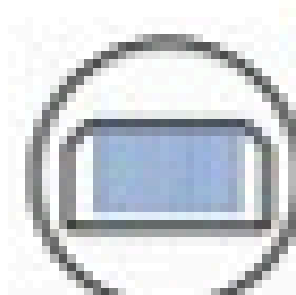
TUV, CE, SGS, CQC, ROHS, INMETRO, CGC, IEC



RoHS



Key Features



HJT Half Cell

The power of half-cell solar panel increases, and the hot spot temperature reduces because of lower working current



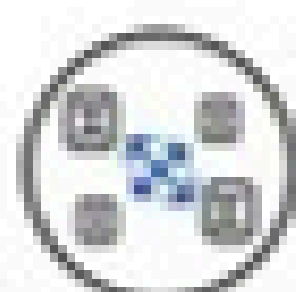
Extended Wind and Snow Load Tests

Module certified to withstand extreme wind(2400 Pascals) and snow loads(5400 Pascals)



High PID Resistant

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



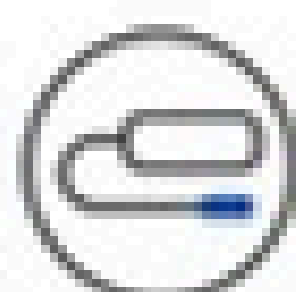
Current Sorting Process

System output maximized by reducing mismatch losses up to 2% with modules sorted & packaged by ampereage



Positive Tolerance

Positive tolerance of up to 0~+5w delivers higher outputs reliability



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



N-TOPCon

NES132/695-705W

Bifacial Double Glass Half Cell Solar Panel

12-year product warranty

30-year linear power output warranty

695-705W /Output Power

22.40% /Maximum Efficiency

0~+5W /Power Tolerance

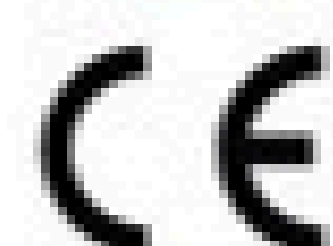
Certificates

*ISO9001:2015

*ISO14001:2015

*ISO45001:2018

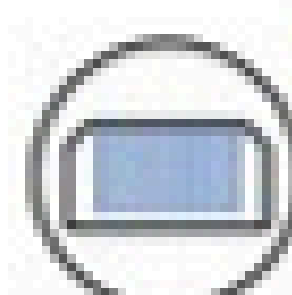
TUV, CE, SGS, CQC, ROHS, INMETRO, CGC, IEC



RoHS

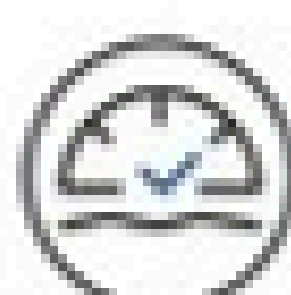


Key Features



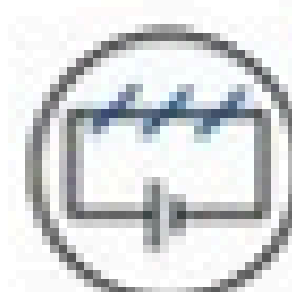
N-TOPCon Half Cell

The power of half-cell solar panel increases, and the hot spot temperature reduces because of lower working current



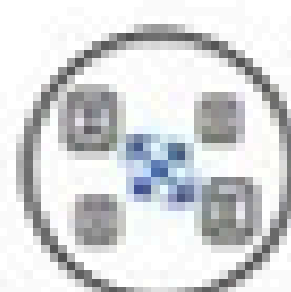
Extended Wind and Snow Load Tests

Module certified to withstand extreme wind (2400 Pascals) and snow loads (2400 Pascals)



High PID Resistant

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



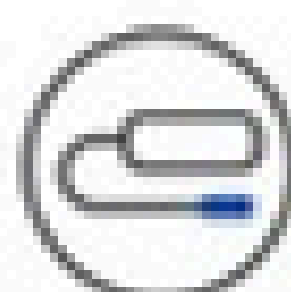
Current Sorting Process

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 reliability



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



N-TOPCon

NES132/675-695W

Bifacial Double Glass Half Cell Solar Panel

12-year product warranty

30-year linear power output warranty

675-695W /Output Power

22.40% /Maximum Efficiency

0~+5W /Power Tolerance

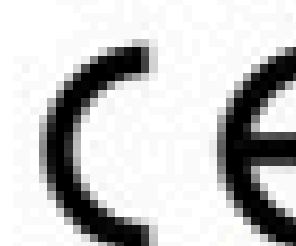
Certificates

*ISO9001:2015

*ISO14001:2015

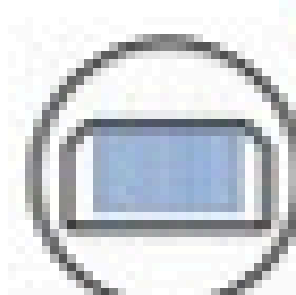
*ISO45001:2018

*TUV, CE, SGS, INMETRO, ROHS, IEC



RoHS

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



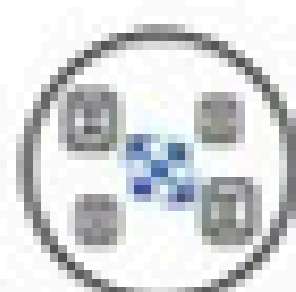
Extended Wind and Snow Load Tests

Module certified to withstand extreme wind (2400 Pascals) and snow loads (2400 Pascals)



High PID Resistant

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



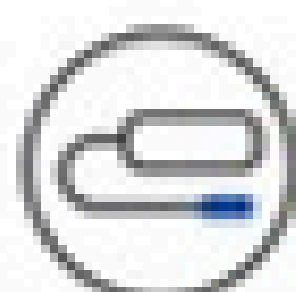
Current Sorting Process

System output maximized by reducing mismatch losses up to 2% with modules sorted & packaged by ampereage



Positive Tolerance

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



1500V

Backsheet and junction box supporting 1500V system

Quality Guarantee

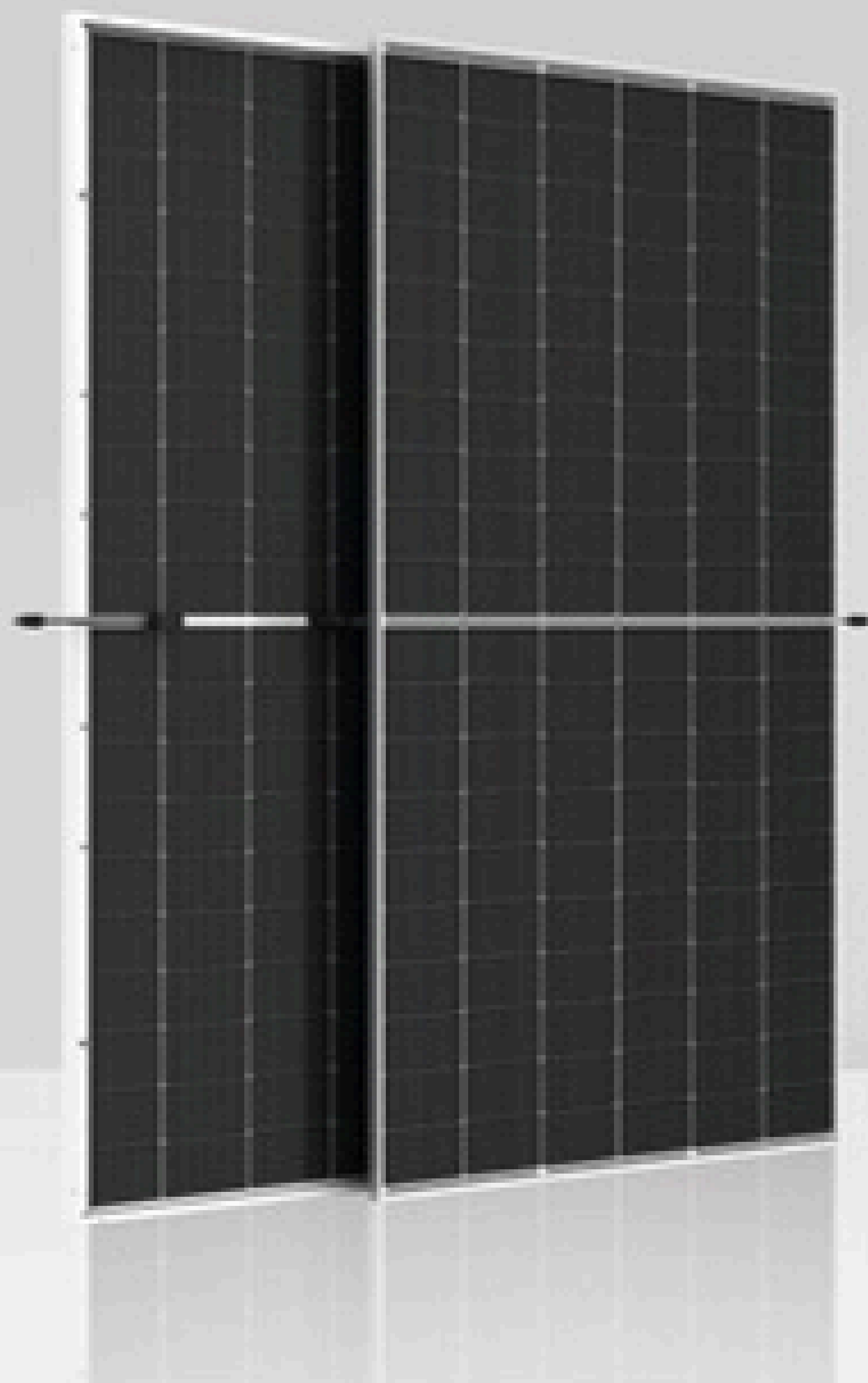
≤1% The first year attenuation

0.4% Annual Degradation over 30 years



● 30-year linear power output warranty

● 12-year product warranty



N-TOPCon

NES120/590-620W

Bifacial Double Glass Half Cell Solar Panel

12-year product warranty

30-year linear power output warranty

590-620W /Output Power

21.91% /Maximum Efficiency

0~+5W /Power Tolerance

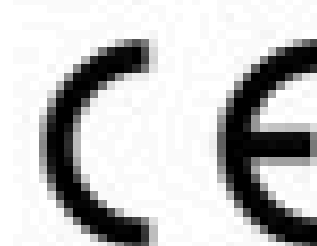
Certificates

*ISO9001:2015

*ISO14001:2015

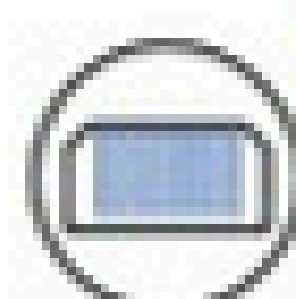
*ISO45001:2018

*TUV, CE, SGS, INMETRO, ROHS, IEC



RoHS

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.



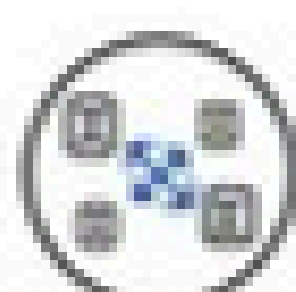
Extended Wind and Snow Load Tests

Module certified to withstand extreme wind(2400 Pascal) and snow loads(2400 Pascal)



High PID Resistant

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



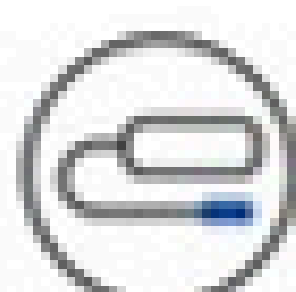
Current Sorting Process

System output maximized by reducing mismatch losses up to 2% with modules sorted & packaged by ampereage



Positive Tolerance

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



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



N-TOPCon

NES132/605-625W

Bifacial Double Glass Half Cell Solar Panel

12-year product warranty

30-year linear power output warranty

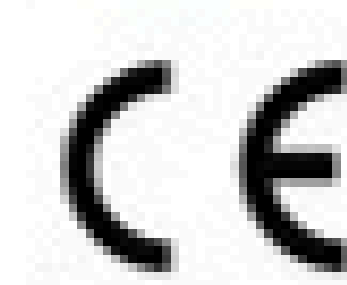
605-625W /Output Power

23.14% /Maximum Efficiency

0~+5W /Power Tolerance

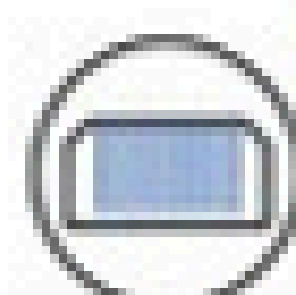
Certificates

*ISO9001:2015
*ISO14001:2015
*ISO45001:2018
*TUV, CE, CQC, SGS, INMETRO, DEKRA



RoHS

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.



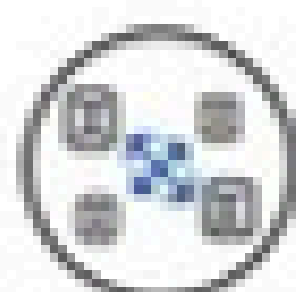
Extended Wind and Snow Load Tests

Module certified to withstand extreme wind(2400 Pascal) and snow loads(2400 Pascal)



High PID Resistant

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



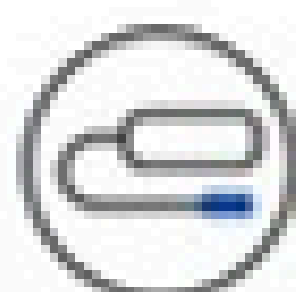
Current Sorting Process

System output maximized by reducing mismatch losses up to 2% with modules sorted & packaged by ampereage



Positive Tolerance

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



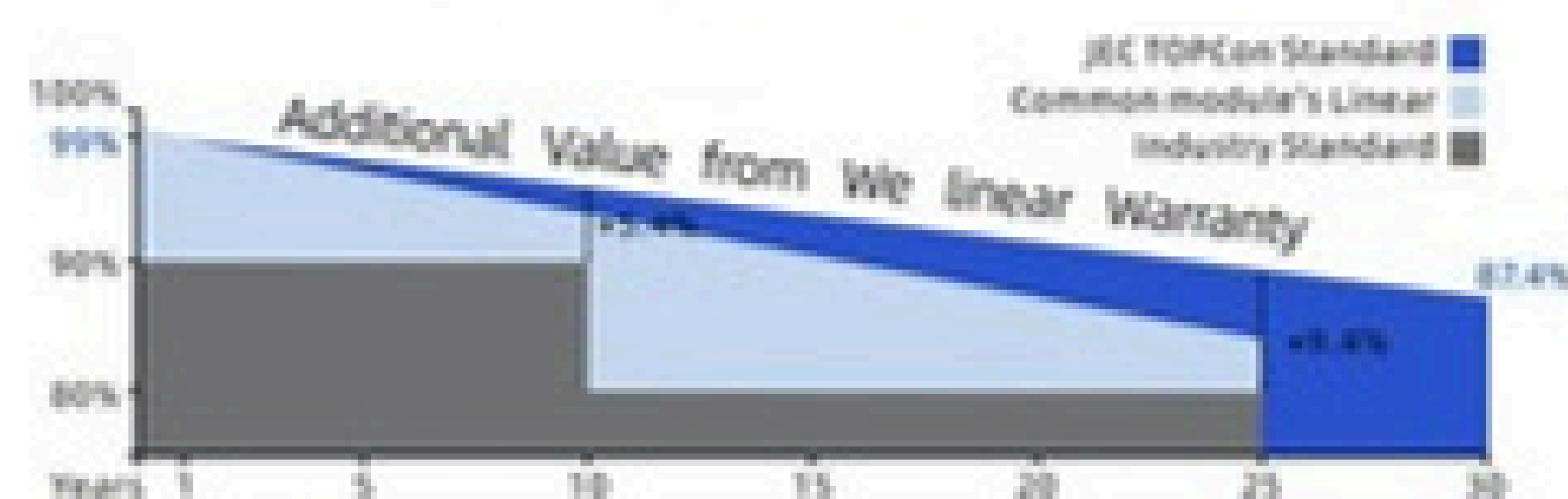
1500V

Backsheet and junction box supporting 1500V system

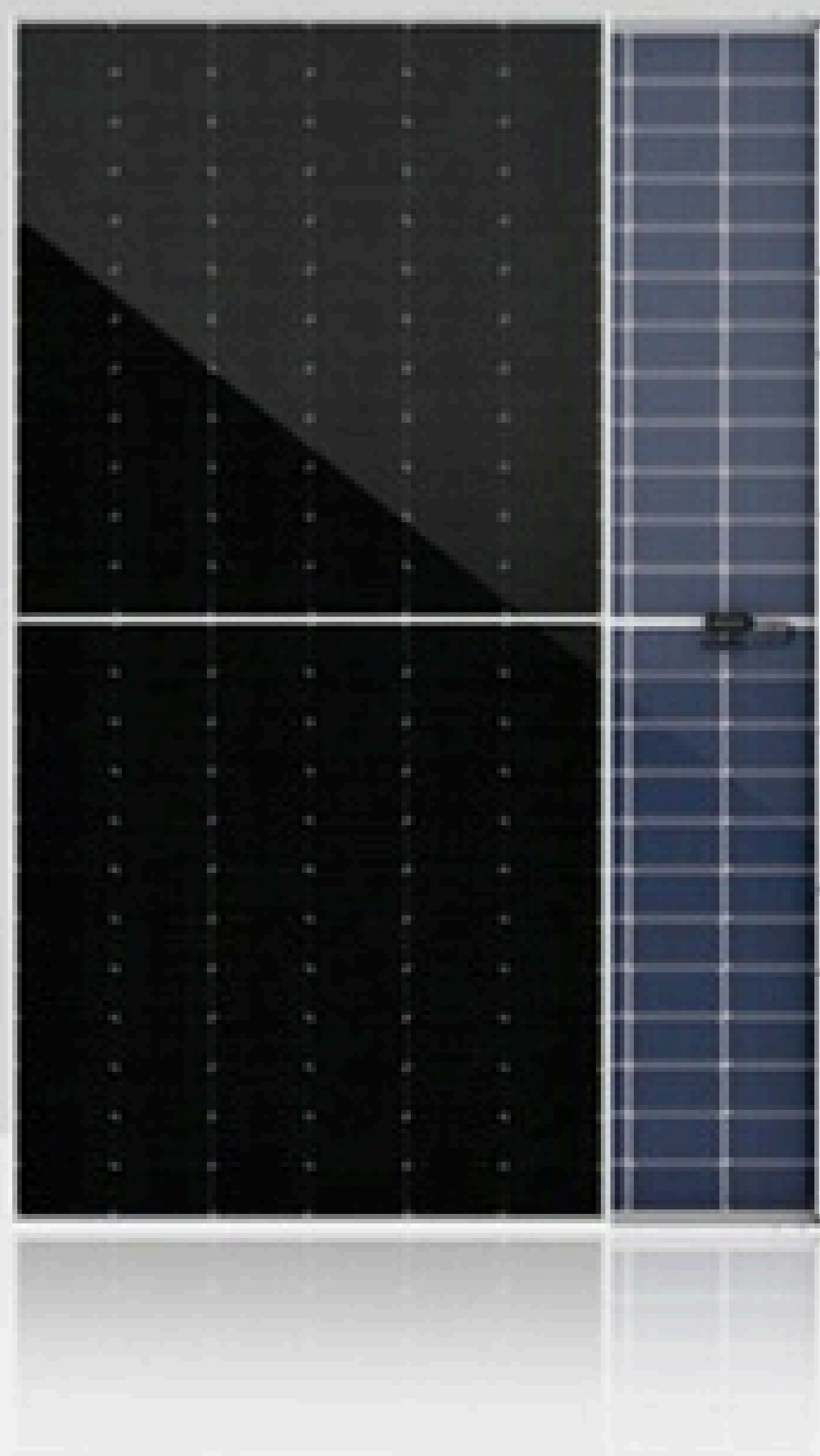
Quality Guarantee

≤1% The first year attenuation

0.4% Annual Degradation over 30 years



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



N-TOPCon

NES144/575-585W

Bifacial Double Glass MBB Half Cell Solar Panel

12-year product warranty

30-year linear power output warranty

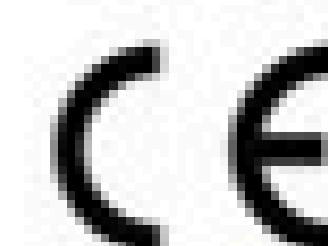
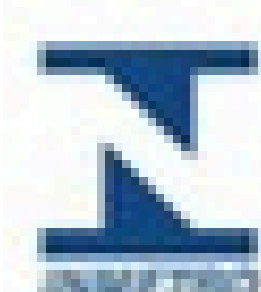
575-585W /Output Power

22.65% /Maximum Efficiency

0~+5W /Power Tolerance

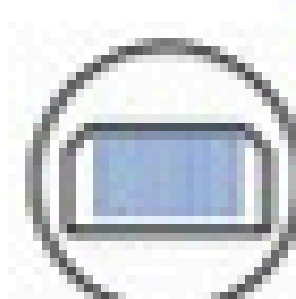
Certificates

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



RoHS

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



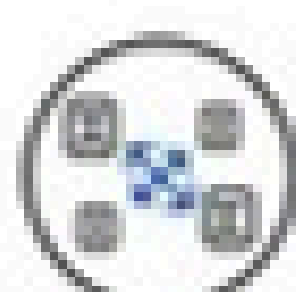
Extended Wind and Snow Load Tests

Module certified to withstand extreme wind (2400 Pascals) and snow loads (5400 Pascals)



High PID Resistant

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



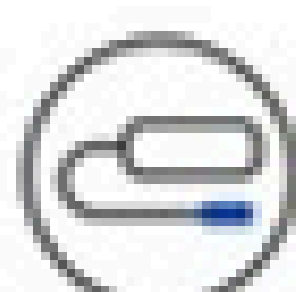
Current Sorting Process

System output maximized by reducing mismatch losses up to 2% with modules sorted & packaged by ampere



Positive Tolerance

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



1500V

Backsheet and junction box supporting 1500V system

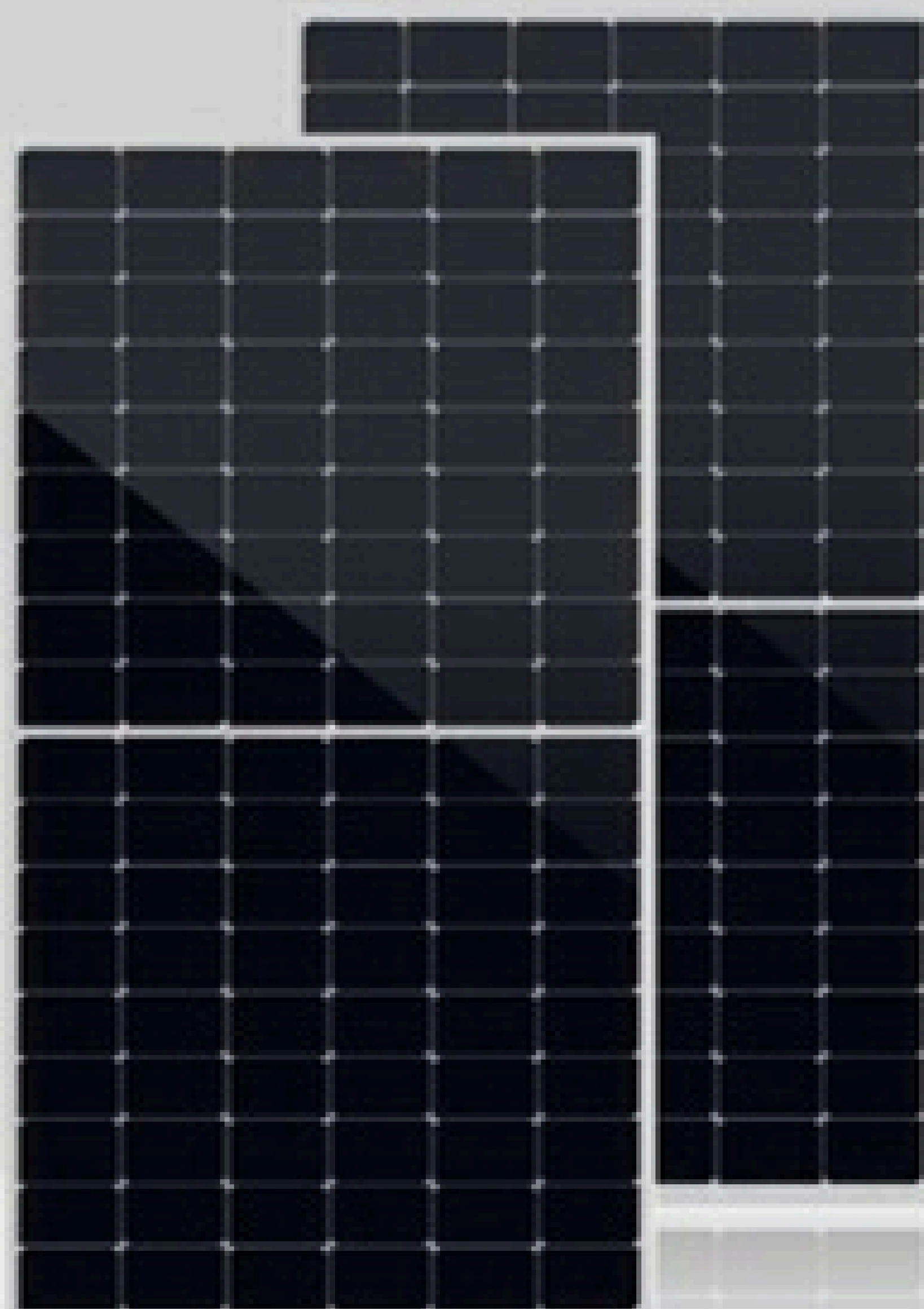
Quality Guarantee

≤1% The first year attenuation

0.4% Annual Degradation over 30 years



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



N-TOPCon

NES108/410-430W

Bifacial Double Glass Half Cell Solar Panel

12-year product warranty

30-year linear power output warranty

410-430W /Output Power

22.02% /Maximum Efficiency

0~+5W /Power Tolerance

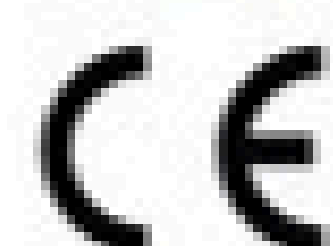
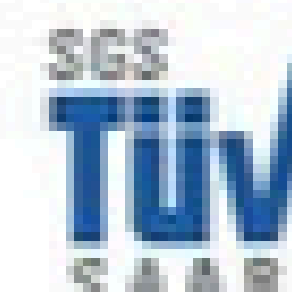
Certificates

*ISO9001:2015

*ISO14001:2015

*ISO45001:2018

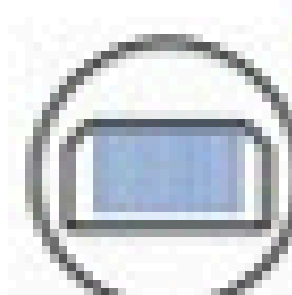
TUV, CE, SGS, CQC, ROHS, INMETRO, CGC, IEC



RoHS

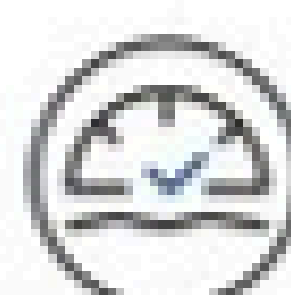


Key Features



N-TOPCon Half Cell

The power of half-cell solar panel increases, and the hot spot temperature reduces because of lower working current



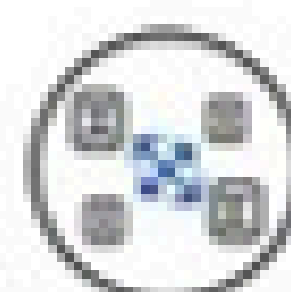
Extended Wind and Snow Load Tests

Module certified to withstand extreme wind(2400 Pascals) and snow loads(5400 Pascals)



High PID Resistant

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



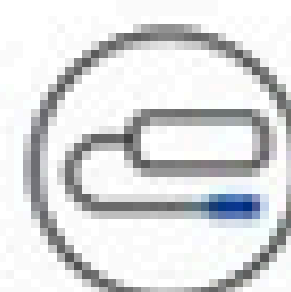
Current Sorting Process

System output maximized by reducing mismatch losses up to 2% with modules sorted & packaged by ampereage



Positive Tolerance

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



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



P/N Type

NES108/270-430W

Transparent Backsheet Half Cell Solar Panel

12-year product warranty

25-year linear power output warranty

270-430W

/Output Power

22.02%

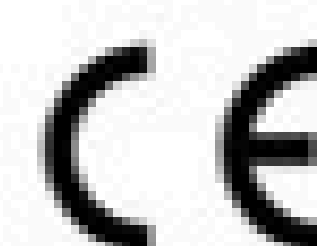
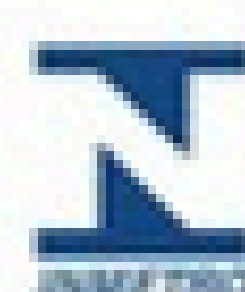
/Maximum Efficiency

0~+5W

/Power Tolerance

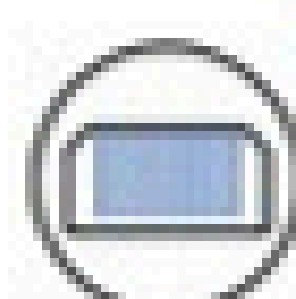
Certificates

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



RoHS

Key Features



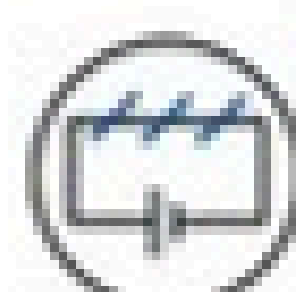
P/N-TOPConHalf Cell

The power of half-cell solar panel increases, and the hot spot temperature reduces because of lower working current.



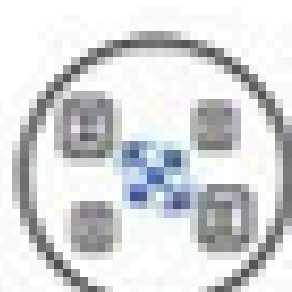
Extended Wind and Snow Load Tests

Module certified to withstand extreme wind (2400 Pascals) and snow loads (5400 Pascals).



High PID Resistant

Advanced cell technology and qualified materials lead to high PID-resistant.



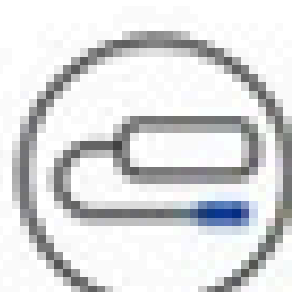
Current Sorting Process

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 reliability.



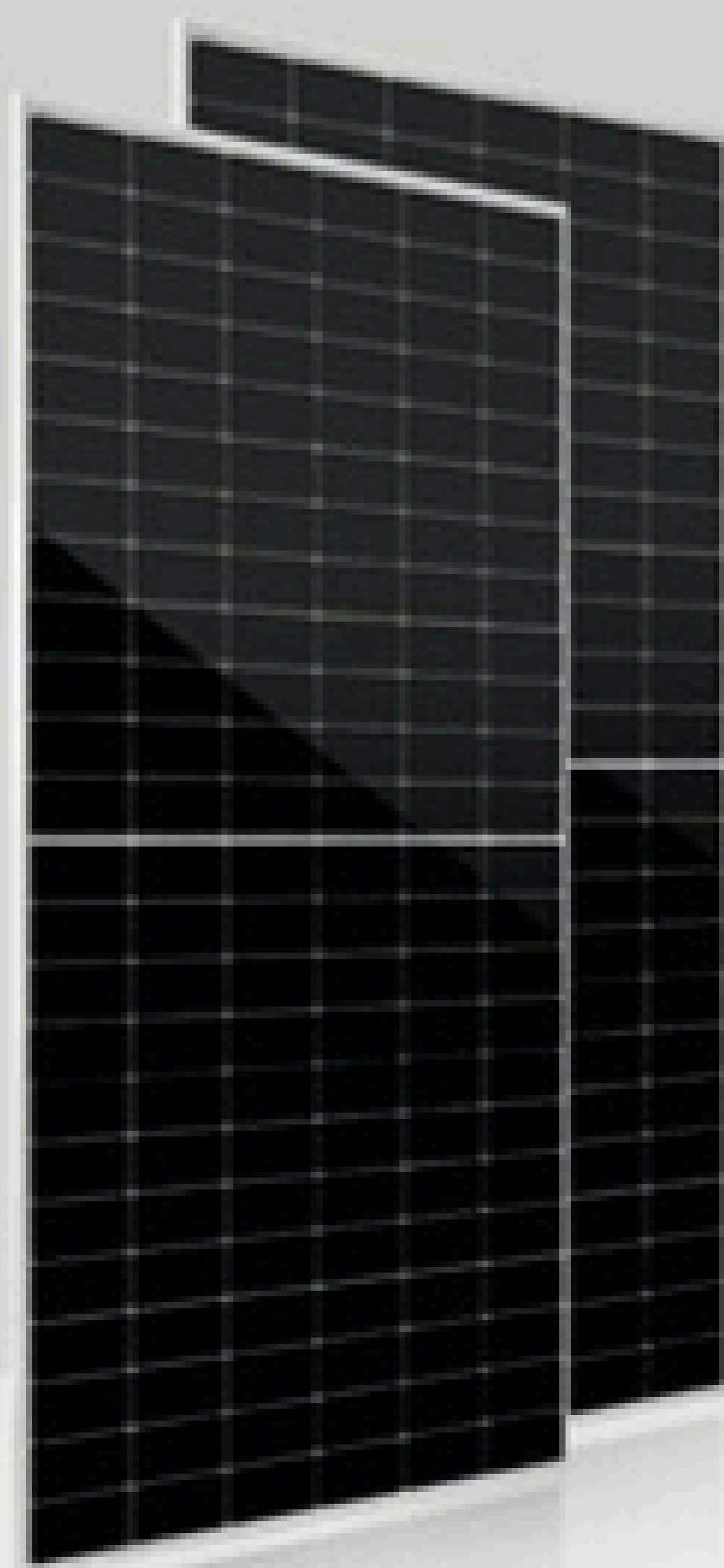
1500V

Backsheet and junction box supporting 1500V system.

Quality Guarantee



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



PREC

NES144/545-555W

MBB Half Cell Mono Solar Panel

12-year product warranty

25-year linear power output warranty

545-555W /Output Power

21.48% /Maximum Efficiency

0~+5W /Power Tolerance

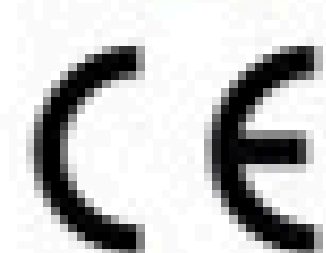
Certificates

*ISO9001:2015

*ISO14001:2015

*ISO45001:2018

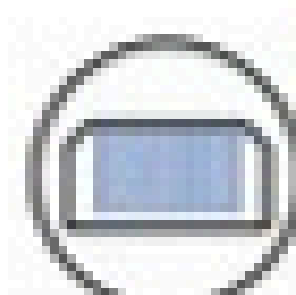
TUV, CE, SGS, CQC, ROHS, INMETRO, CGC, IEC



RoHS



Key Features



Half Cell

The power of half-cell solar panel increases, and the hot spot temperature reduces because of lower working current



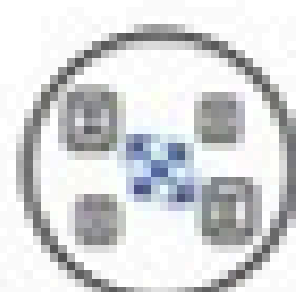
Extended Wind and Snow Load Tests

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



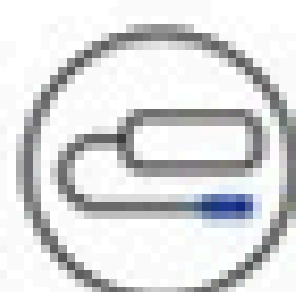
Current Sorting Process

System output maximized by reducing mismatch losses up to 2% with modules sorted & packaged by ampere



Positive Tolerance

Positive tolerance of up to 0~+5w delivers higher outputs reliability



1500V

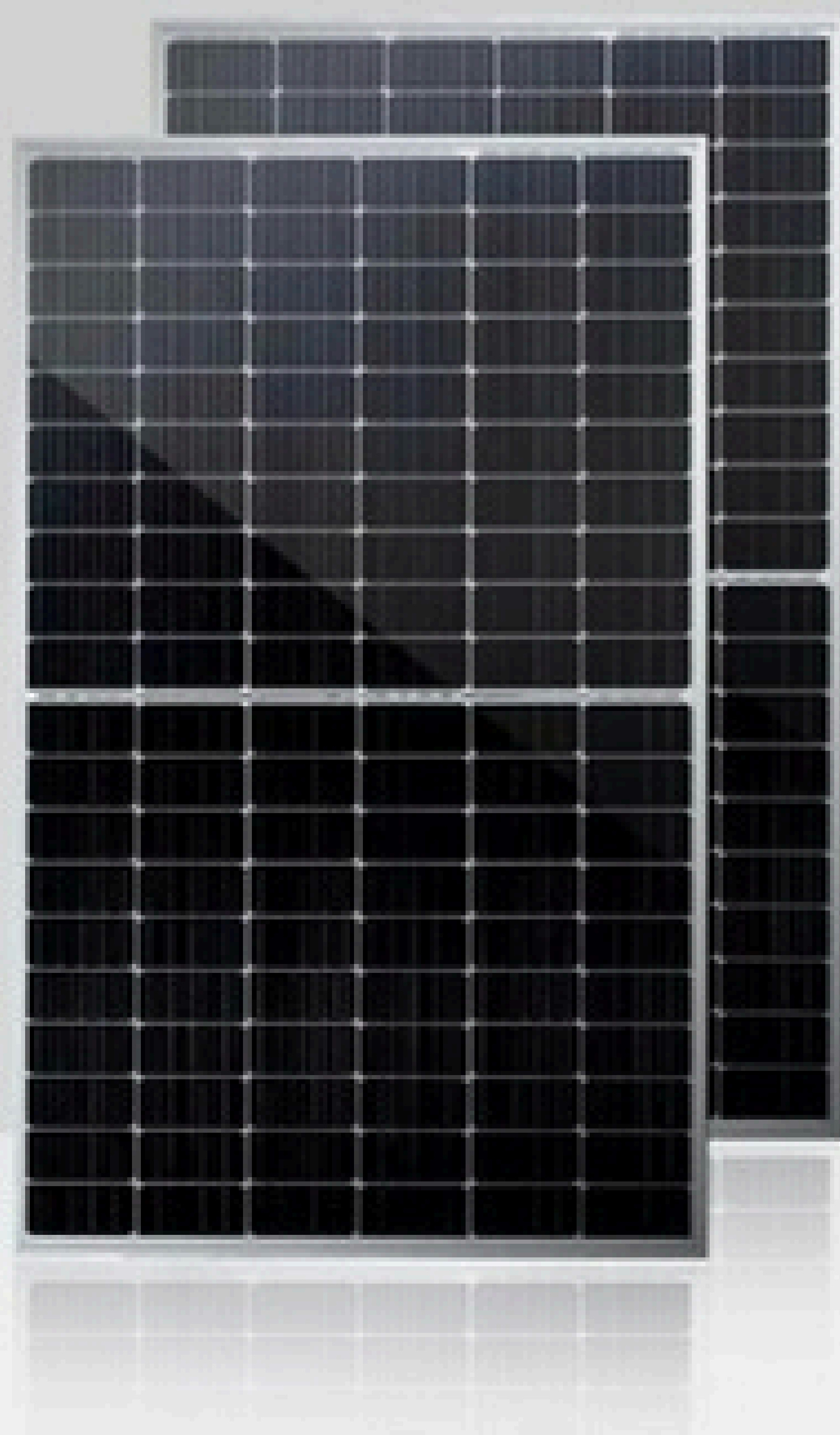
Backsheet and junction box supporting 1500V system

Quality Guarantee



●25-year linear power output warranty

●12-year product warranty



PREC

NES120/440-460W

MBB Half Cell Mono Solar Panel

12-year product warranty

25-year linear power output warranty

440-460W /Output Power

21.32% /Maximum Efficiency

0~+5W /Power Tolerance

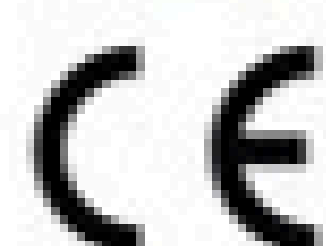
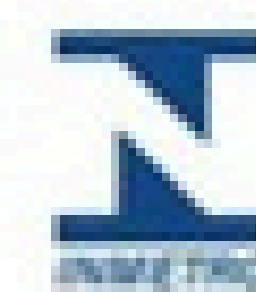
Certificates

*ISO9001:2015

*ISO14001:2015

*ISO45001:2018

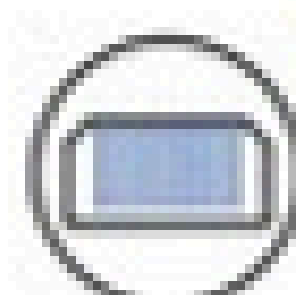
TUV, CE, SGS, CQC, ROHS, INMETRO, CGC, IEC



RoHS



Key Features



Half Cell

The power of half-cell solar panel increases, and the hot spot temperature reduces because of lower working current



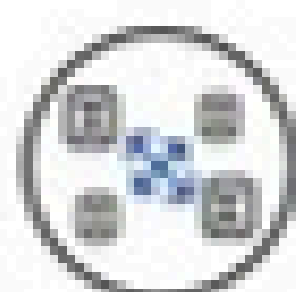
Extended Wind and Snow Load Tests

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



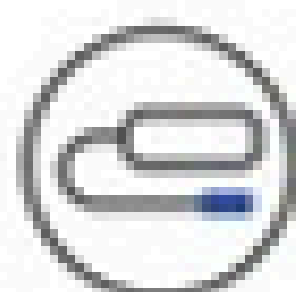
Current Sorting Process

System output maximized by reducing mismatch losses up to 2% with modules sorted & packaged by ampere



Positive Tolerance

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



1500V

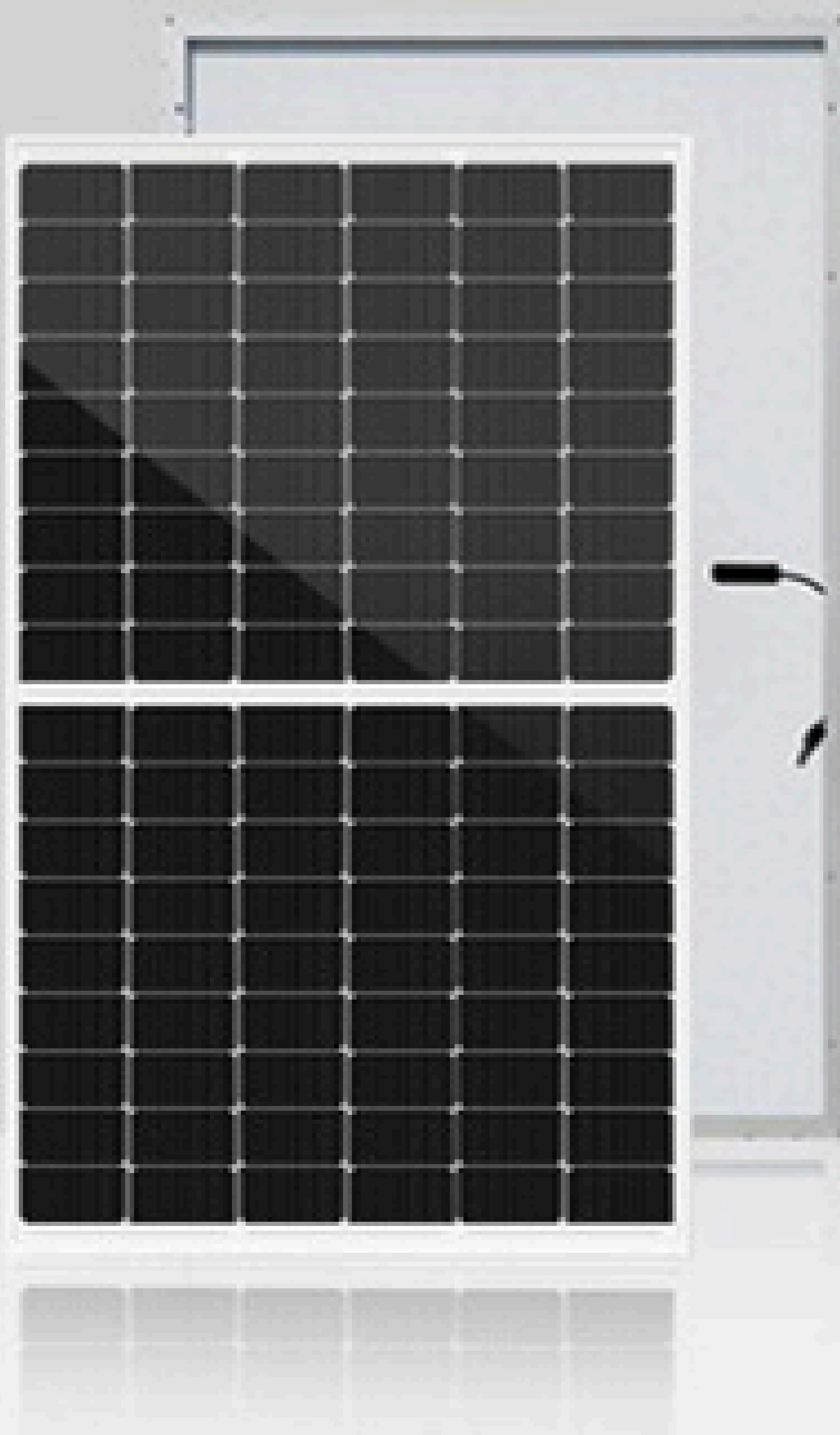
Backsheet and junction box supporting 1500V system

Quality Guarantee



● 25-year linear power output warranty

● 12-year product warranty



PREC

NES108/400-410W

MBB Half Cell Mono Solar Panel

12-year product warranty

25-year linear power output warranty

400-410W /Output Power

21.00% /Maximum Efficiency

0~+5W /Power Tolerance

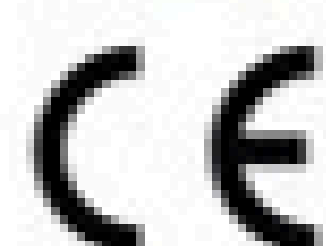
Certificates

*ISO9001:2015

*ISO14001:2015

*ISO45001:2018

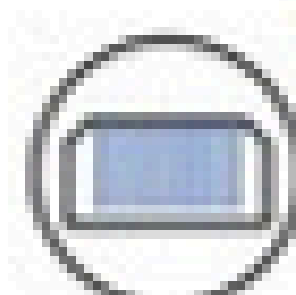
TUV, CE, SGS, CQC, ROHS, INMETRO, CGC, IEC



RoHS



Key Features



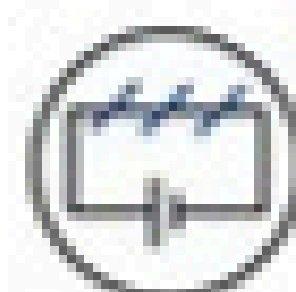
Half Cell

The power of half-cell solar panel increases, and the hot spot temperature reduces because of lower working current



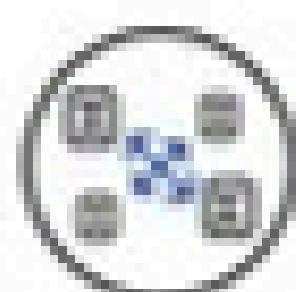
Extended Wind and Snow Load Tests

Module certified to withstand extreme wind (2400 Pascals) and snow loads (5400 Pascals)



High PID Resistant

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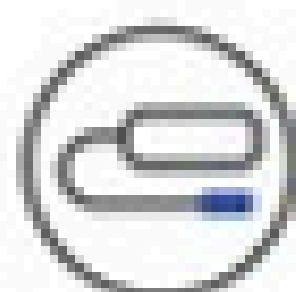
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1500V

Backsheet and junction box supporting 1500V system

Quality Guarantee



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● 12-year product warranty