

PV MODULE

Product Brochure

One-stop solar
and Energy storage system solution provider

HJT-Series

N-TOPCon-series

PERC-Series

Responsibility·Innovation·Excellence·Sharing

The 36th Research Institute of China Electronics Technology Group Corporation
Zhejiang JEC New Energy Technology Co.,Ltd

01 COMPANY PROFILE

03 PROJECT CASES

CONTENTS

PV MODULE Product Brochure

02 PRODUCT PRESENTATION

- HJT 210mm
NES110/565-585W
Bifacial Double Glass Half Cell Solar Panel
- HJT 210mm
NES132/675-710W
Bifacial Double Glass Half Cell Solar Panel
- HJT 210mm
NES132/700-725W
Bifacial Double Glass Half Cell Solar Panel
- N-TOPCon 182mm
NES108/410-430W
Bifacial Double Glass Half Cell Solar Panel
- N-TOPCon 182mm
NES144/575-585W
Bifacial Double Glass Half Cell Solar Panel
- N-TOPCon 210mm
NES120/590-630W
Bifacial Double Glass Half Cell Solar Panel
- N-TOPCon
NES132/605-625W
Bifacial Double Glass Half Cell Solar Panel
- N-TOPCon 210mm
NES132/675-700W
Bifacial Double Glass Half Cell Solar Panel
- N-TOPCon 210mm
NES132/695-710W
Bifacial Double Glass Half Cell Solar Panel
- P/N Type
NES108/270-430W
Transparent Backsheet Half cell Solar Panel
- PREC 182mm
NES108/400-410W
MBB Half Cell Mono Solar Panel
- PREC 182mm
NES120/440-460W
MBB Half Cell Mono Solar Panel
- PREC 182mm
NES144/545-555W
MBB Half Cell Mono Solar Panel
- PREC 182mm
NES/10-410W
Small Size Type Mono Solar Panel

COMPANY PROFILE

Zhejiang JEC New Energy Technology CO., Ltd (CETCsolar) is founded in August 2013, in Ji-axing, Zhejiang Province. Formly New Energy Sector of No.36 Research Institute of CETC(No.36 Research Institute), founded in September 2008, is a holding company of No. 36 Research Insti-tute. We specializes in design, construction, operation and maintenance for distributed PV power station and environmental PV system. Our core products are commercial, public and household PV system, PV micro system, PV modules.

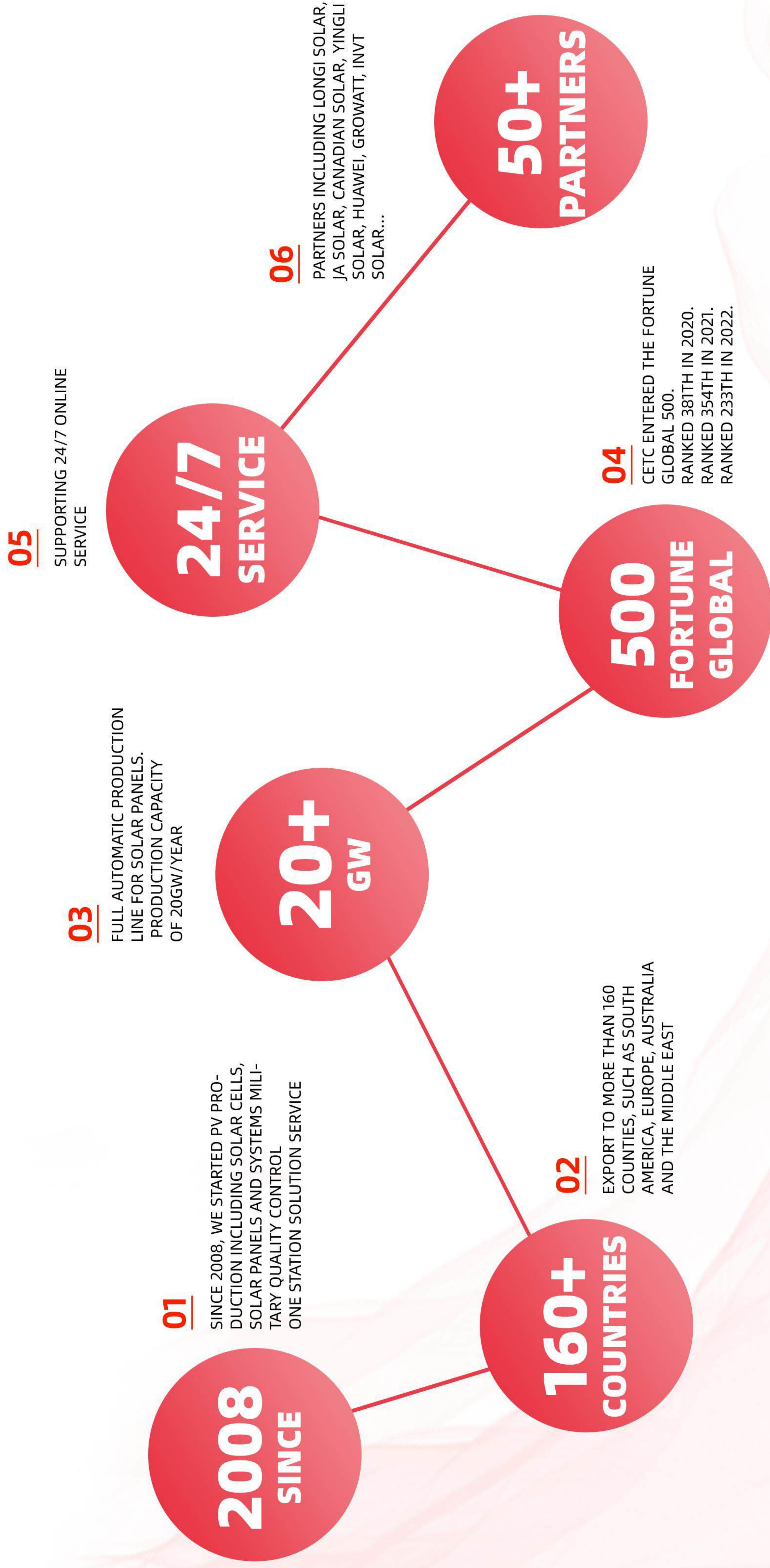
CETCsolar relying on the strong product development capability of No.36 Research Insti-tute, has a professional system design capability and ISO9001 quality assurance system, is the member unit of the focus of Zhejiang Science and Technology Innovation Team(New Energy Power Electronics Technology Innovation Team), is the first team of the focus of the technologi-cal innovation in Jiaxing city, has a Zhejiang Province key enterprise institute---Institute of PV equipment and intelligent control, holds 21 patents. Our solar products have acquired TÜV , CE, CQC, SGS, INMETRO, DEKRA certification.

We CETCsolar will uphold the rigorous style of military workers, provide the best quality products and service to our customers and help them create value.

 中国电科



ENTERPRISE DEVELOPMENT



378+
Professional
R&D personnel

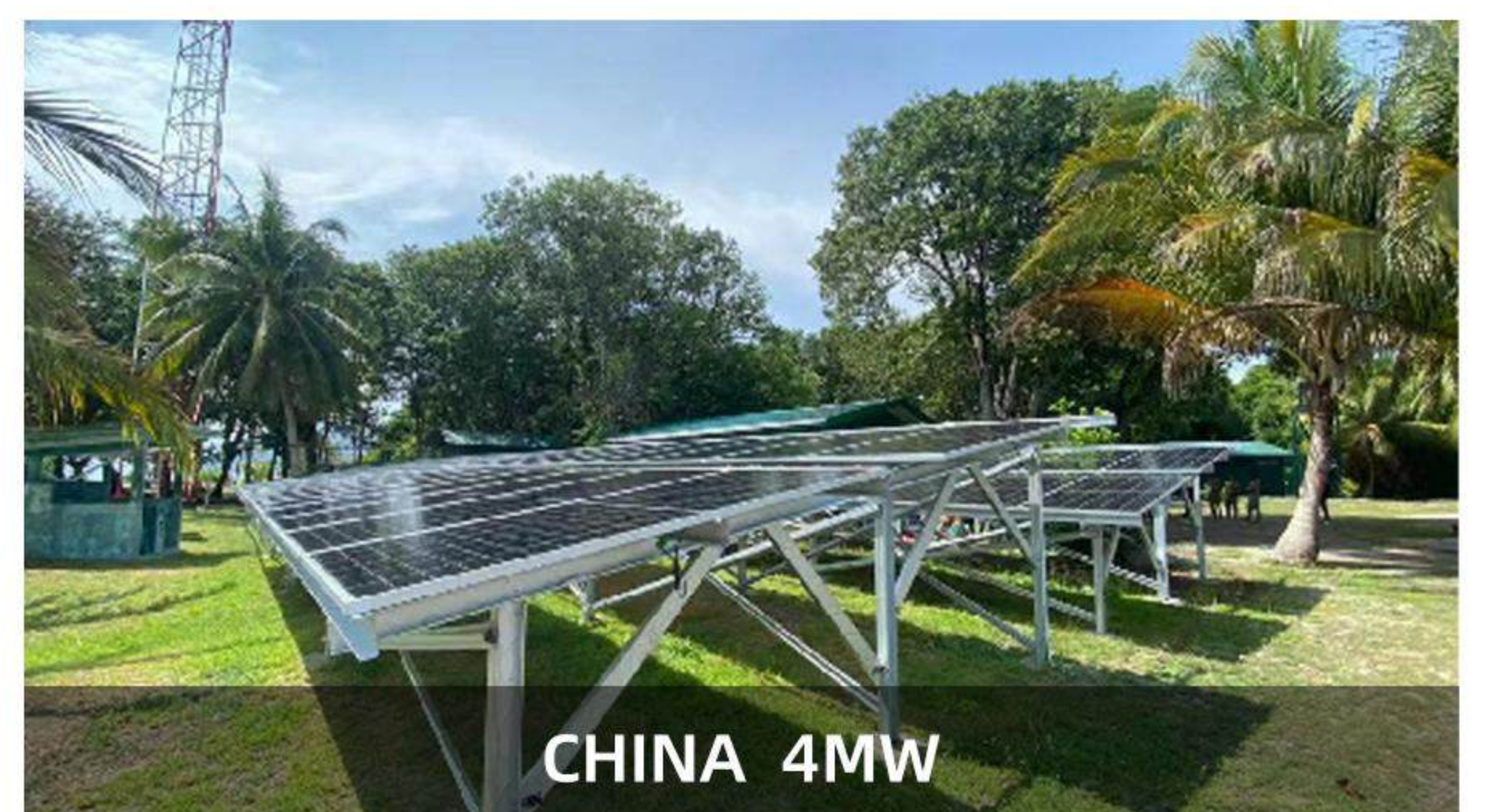
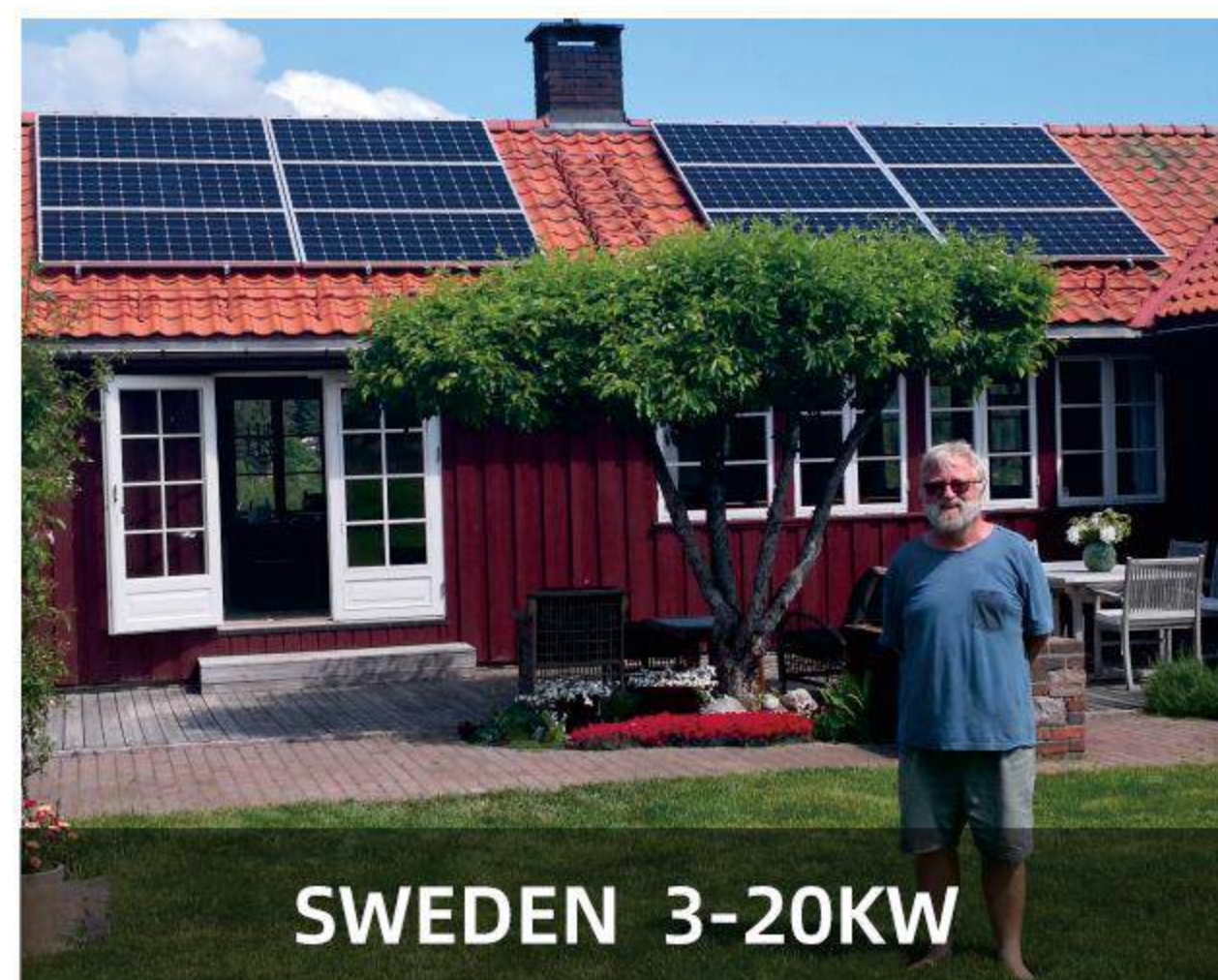
35+
Senior
engineers

25+
Professor
engineer

20+
Doctorate
R&D personnel

68+
Master
R&D personnel

PROJECT CASES





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



Key Features



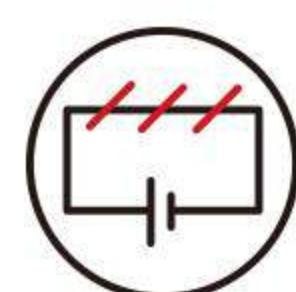
HJT Half Cell

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



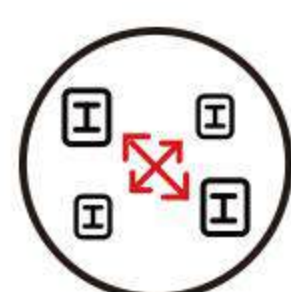
Extended Wind and Snow Load Tests

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



High PID Resistant

Advanced cell technology and qualified materials lead to high PID resistant



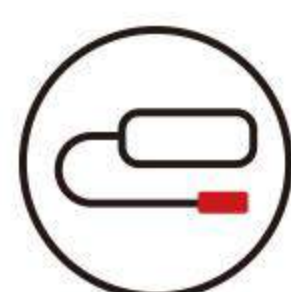
Current Sorting Process

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 reliability



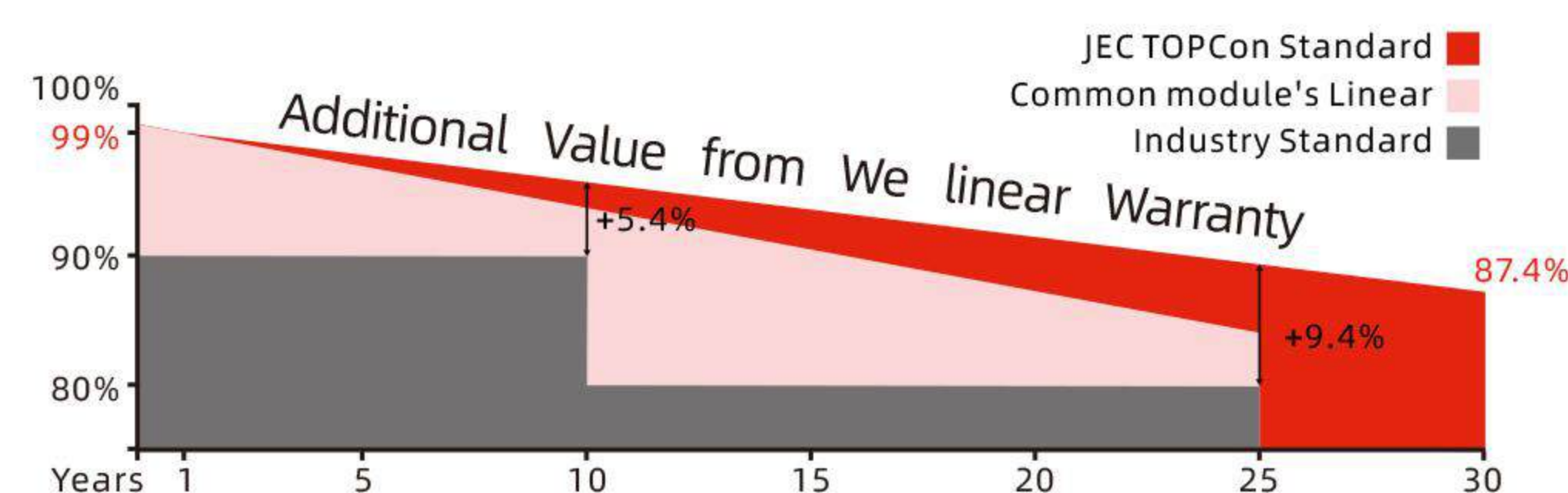
1500V

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



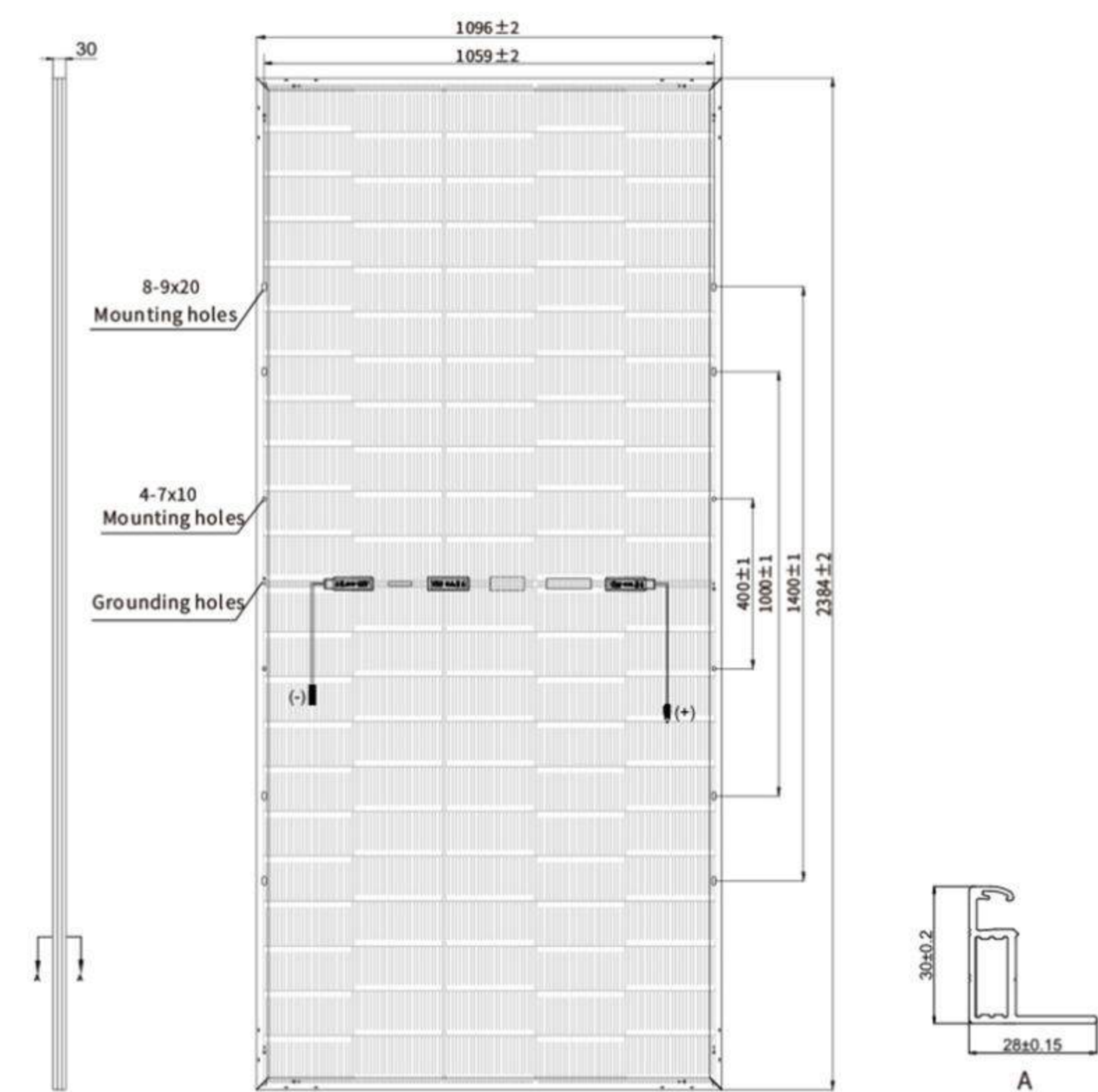
Address: No.587 Taoyuan Road, Jiaxing, Zhejiang, P.R.China
Tel: +86-0573-82651222 Fax: +86-0573-82651223
Web: www.cetcsolarpv.com



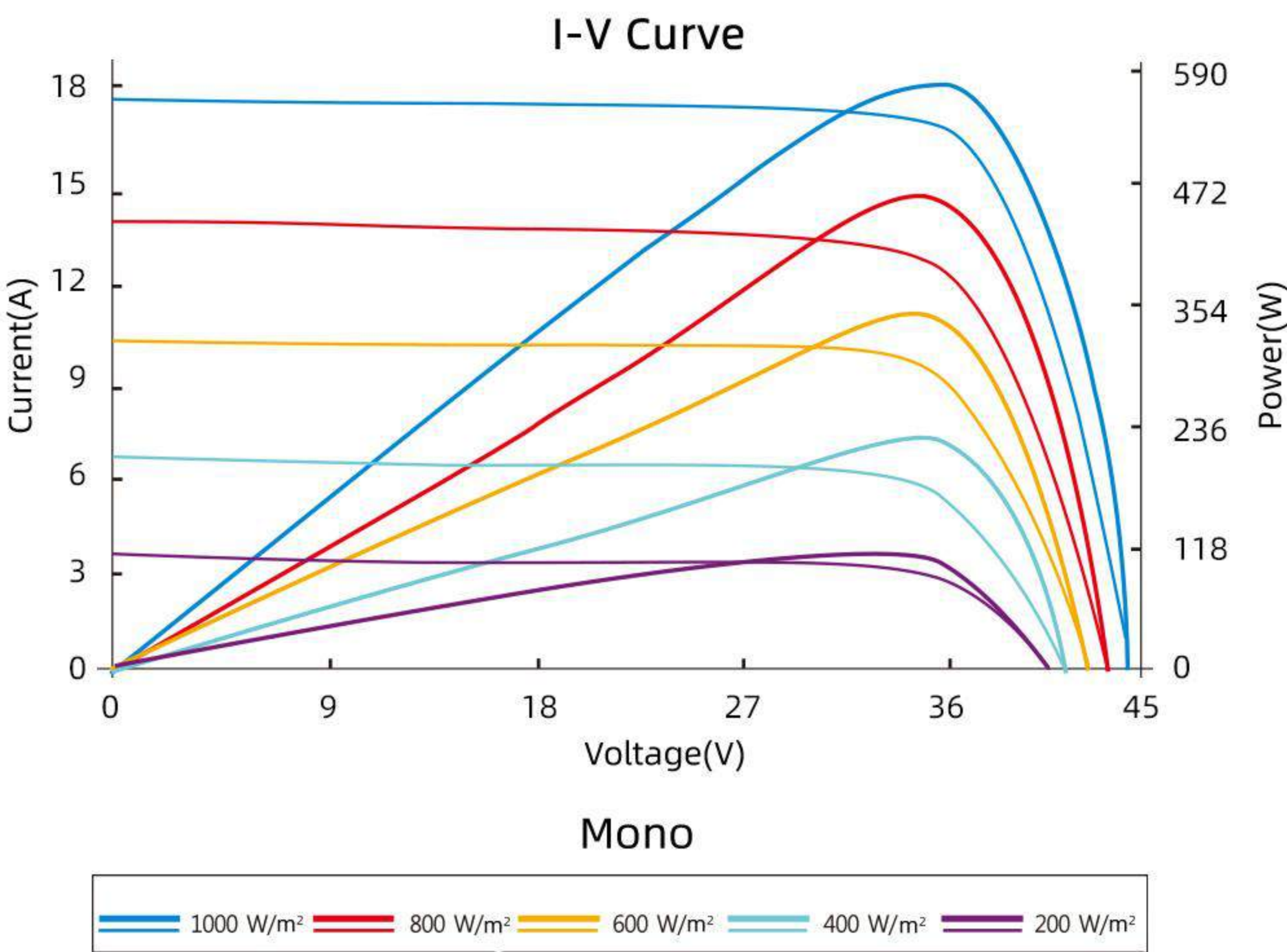
浙江嘉科新能源环保科技有限公司
ZHEJIANG JEC NEW ENERGY TECHNOLOGY CO.,LTD

HJT 210mm
NES110/565-585W
Bifacial Double Glass
MBB Half Cell Solar Panel

Engineering Drawing



CETC
中国电子科技集团有限公司
浙江嘉科新能源环保科技有限公司
ZHEJIANG JEC NEW ENERGY TECHNOLOGY CO.,LTD



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

Electrical Characteristics

STC	NES110-8-565M	NES110-8-570M	NES110-8-575M	NES110-8-580M	NES110-8-585M
MAXIMUM POWER(PMAX)	565W	570W	575W	580W	585W
Optimum Operating Voltage(Vmp)	34.53V	34.60V	34.68V	34.76V	34.84V
Optimum Operating Current(Imp)	16.39A	16.49A	16.60A	16.71A	16.81A
Open Circuit Voltage(Voc)	41.18V	41.27V	41.36V	41.46V	41.55V
Short Circuit Current(Isc)	17.47A	17.57A	17.67A	17.77A	17.88A
Module Efficiency	21.60%	21.80%	22.00%	22.20%	22.40%
Operating Module Temperature	-40°C to +85°C				
Maximum System Voltage	1500V DC (IEC)				
Power Tolerance	0~+5W				
STC	Irradiance 1000 W/m², module temperature 25°C, AM=1.5; Best in Class AAA solar simulator (IEC 60904-9) used				

Mechanical Characteristics

Solar Cell	210mm N-type HJT
No. of Cells	110 (5x11x2)
Dimensions	2384±2mmx1096±2mmx30±1mm
Weight	33kg±0.5%
Superstrate	High Transmission
Substrate	Heat Strengthened Glass
Frame	Anodized Aluminium Alloy, Silver Color
Junction box	Potted, IP68, 1500VDC
Cables	4.0mm², Positive(+)350mm, Negative(-)230mm/Customized
Connectors	MC4 connectors

Temperature Characteristics

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

Packing Configuration(30mm)

Per Pallet	35Pieces
Per Container (40' HQ)	700Pieces

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



Address: No.587 Taoyuan Road, Jiaxing, Zhejiang, P.R.China
Tel: +86-0573-82651222 Fax: +86-0573-82651223
Web: www.cetcsolarpv.com

CETC 浙江嘉科新能源环保科技有限公司
ZHEJIANG JEC NEW ENERGY TECHNOLOGY CO.,LTD



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

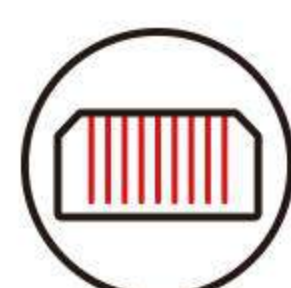
*ISO45001:2018

*TUV、CE、SGS、INMETRO、ROHS、IEC



RoHS

Key Features



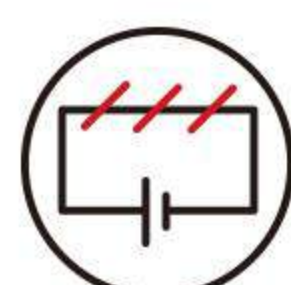
HJT Half Cell

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



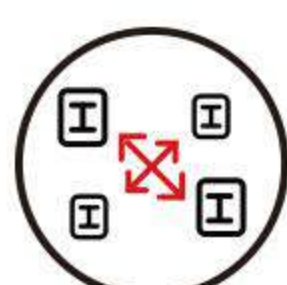
Extended Wind and Snow Load Tests

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



High PID Resistant

Advanced cell technology and qualified materials lead to high PID resistant



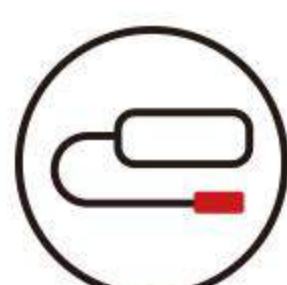
Current Sorting Process

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 reliability



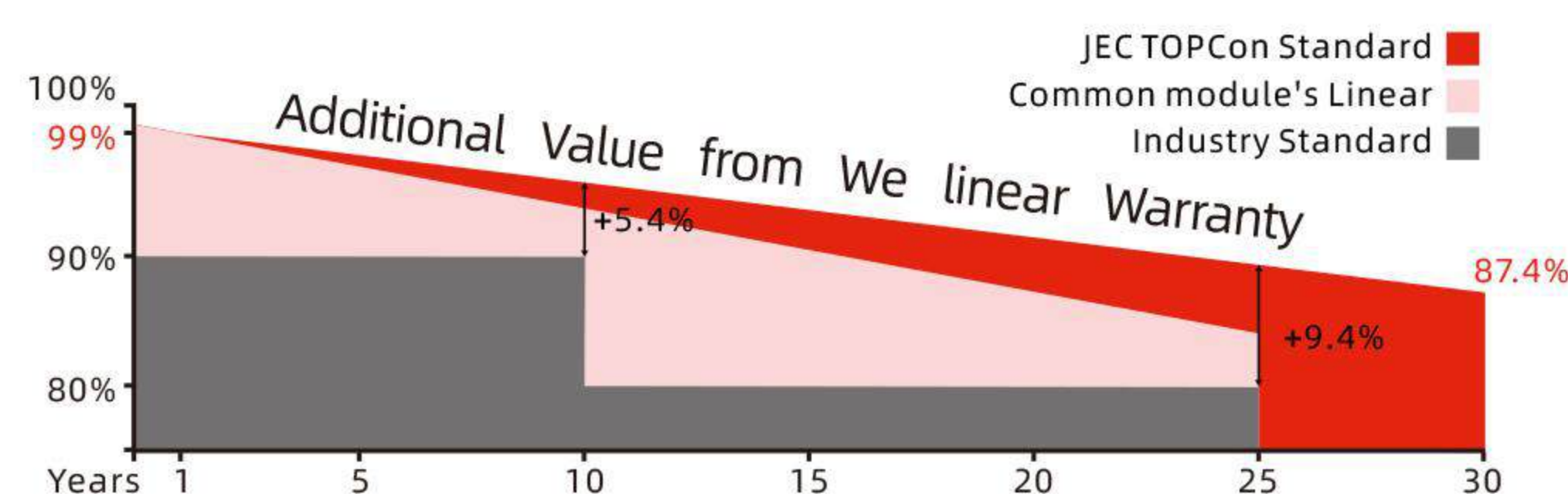
1500V

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



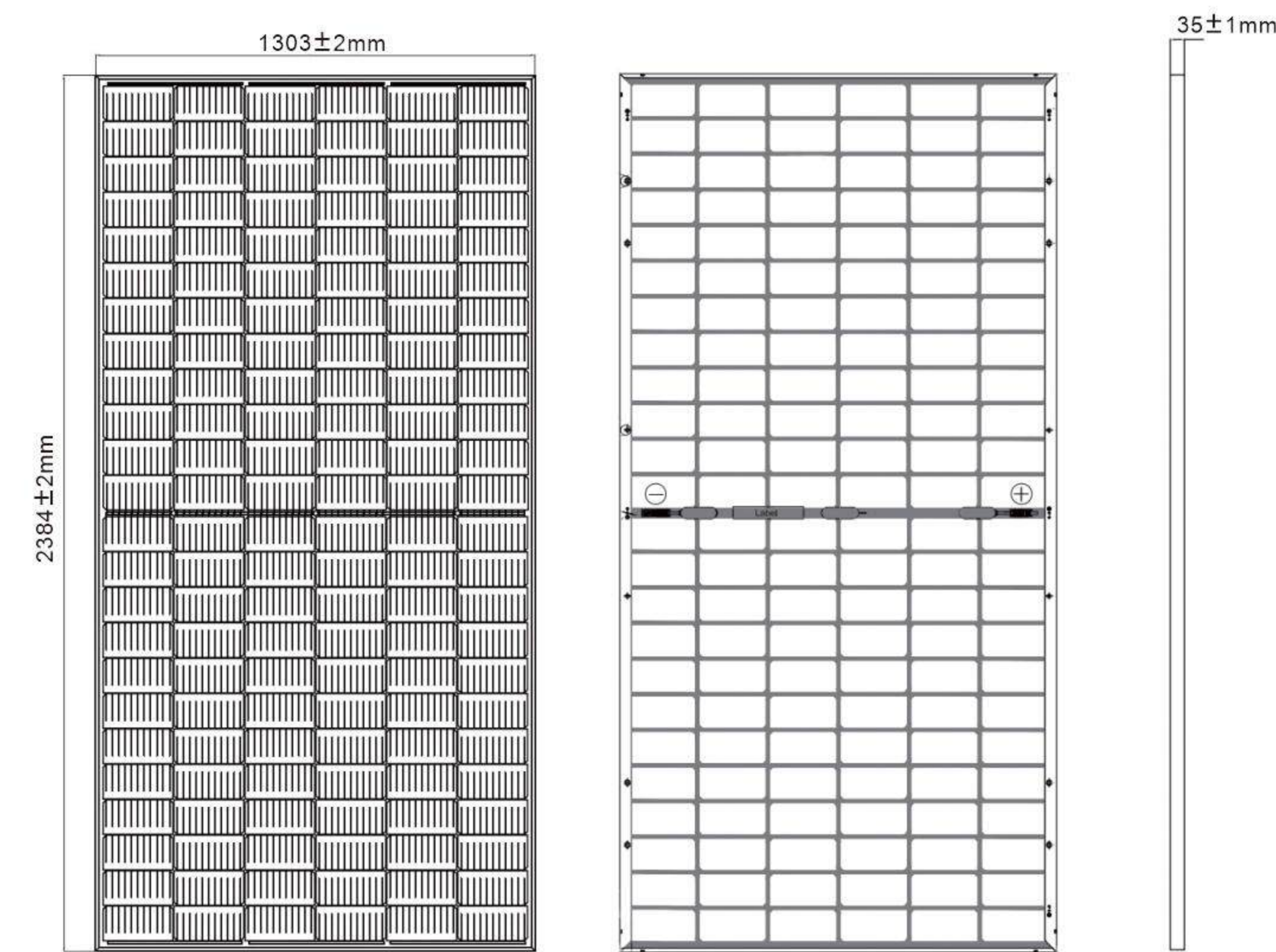
Address: No.587 Taoyuan Road, Jiaxing, Zhejiang, P.R.China
Tel: +86-0573-82651222 Fax: +86-0573-82651223
Web: www.cetcsolarpv.com



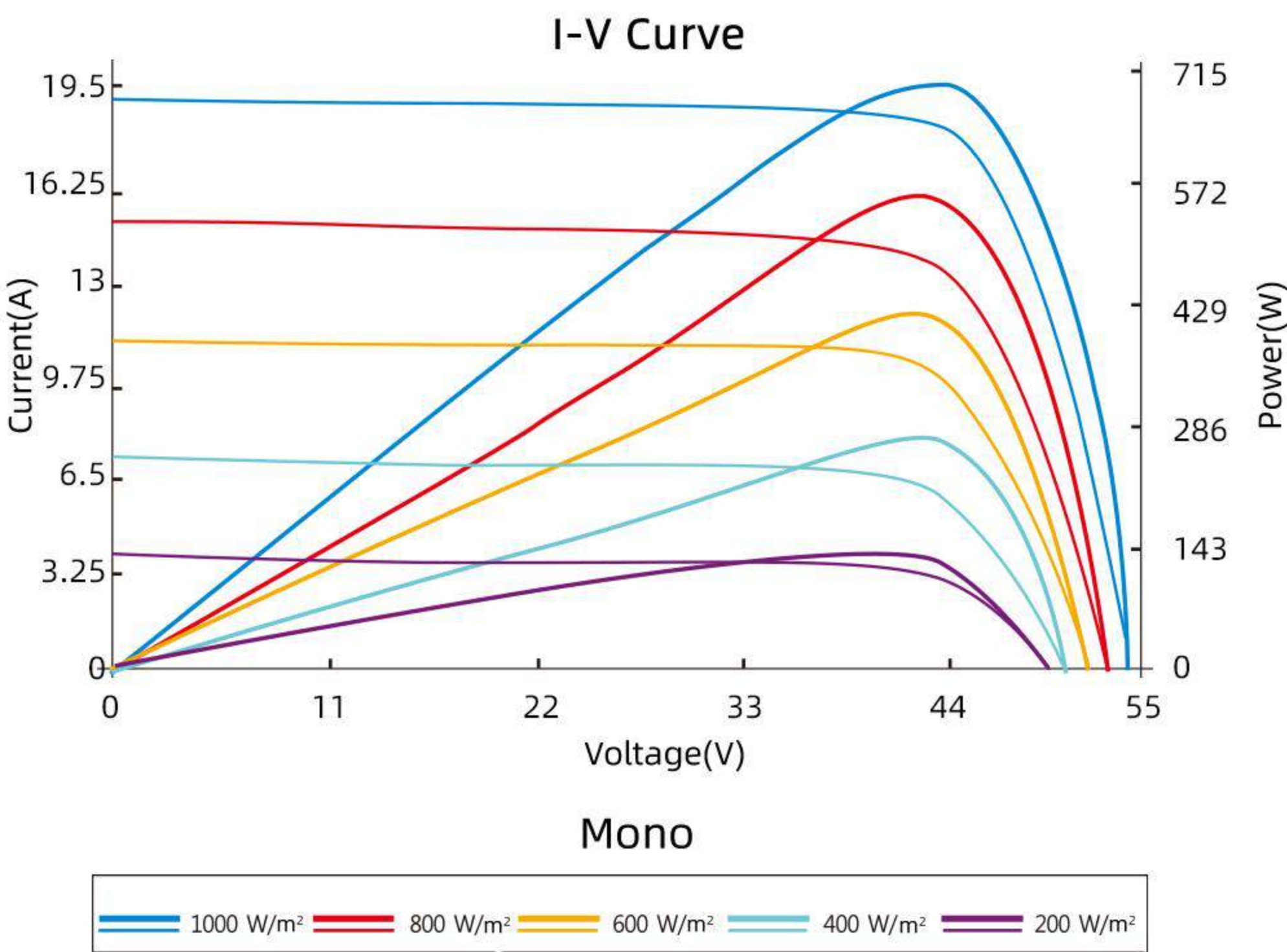
浙江嘉科新能源环保科技有限公司
ZHEJIANG JEC NEW ENERGY TECHNOLOGY CO.,LTD

HJT 210mm
NES132/675-710W
Bifacial Double Glass
MBB Half Cell Solar Panel

Engineering Drawing



CETC
中国电子科技集团有限公司
浙江嘉科新能源环保科技有限公司
ZHEJIANG JEC NEW ENERGY TECHNOLOGY CO.,LTD



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

Electrical Characteristics

STC	NES132-8-675M	NES132-8-680M	NES132-8-685M	NES132-8-690M	NES132-8-695M	NES132-8-700M	NES132-8-710M
MAXIMUM POWER(PMAX)	675W	680W	685W	690W	695W	700W	710W
Optimum Operating Voltage(Vmp)	41.40V	41.48V	41.56V	41.63V	41.71V	41.78V	41.93V
Optimum Operating Current(Imp)	16.31A	16.41A	16.50A	16.60A	16.68A	16.77A	16.95A
Open Circuit Voltage(Voc)	49.38V	49.47V	49.56V	49.65V	49.74V	49.83V	50.01V
Short Circuit Current(Isc)	17.40A	17.48A	17.56A	17.66A	17.74A	17.82A	18.00A
Module Efficiency	21.70%	21.90%	22.10%	22.20%	22.40%	22.50%	22.86%
Operating Module Temperature	-40°C to +85°C						
Maximum System Voltage	1500V DC (IEC)						
Power Tolerance	0~+5W						
STC	Irradiance 1000 W/m², module temperature 25°C, AM=1.5; Best in Class AAA solar simulator (IEC 60904-9) used						

Mechanical Characteristics

Solar Cell	210mm N-type HJT
No. of Cells	132 (6x11x2)
Dimensions	2384±2mmx1303±2mmx33/35±1mm
Weight	38kg±0.5%
Superstrate	High Transmission
Substrate	Heat Strengthened Glass
Frame	Anodized Aluminium Alloy, Silver Color
Junction box	Potted, IP68, 1500VDC
Cables	4.0mm², Positive(+)350mm, Negative(-)230mm/Customized
Connectors	MC4 connectors

Temperature Characteristics

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

Packing Configuration(33/35mm)

Per Pallet	33/31Pieces
Per Container (40' HQ)	594/558Pieces

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



Address: No.587 Taoyuan Road, Jiaying, Zhejiang, P.R.China
Tel: +86-0573-82651222 Fax: +86-0573-82651223
Web: www.cetcsolarpv.com

CETC 浙江嘉科新能源环保科技有限公司
ZHEJIANG JEC NEW ENERGY TECHNOLOGY CO.,LTD



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



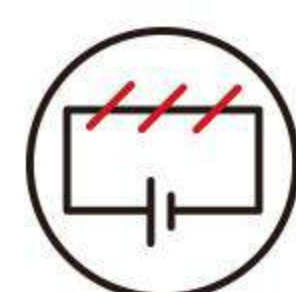
HJT Half Cell

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



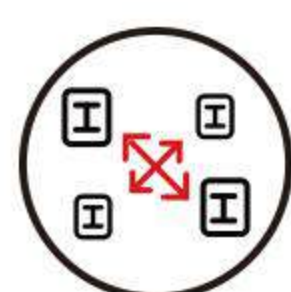
Extended Wind and Snow Load Tests

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



High PID Resistant

Advanced cell technology and qualified materials lead to high PID resistant



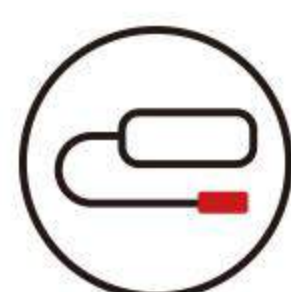
Current Sorting Process

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 reliability



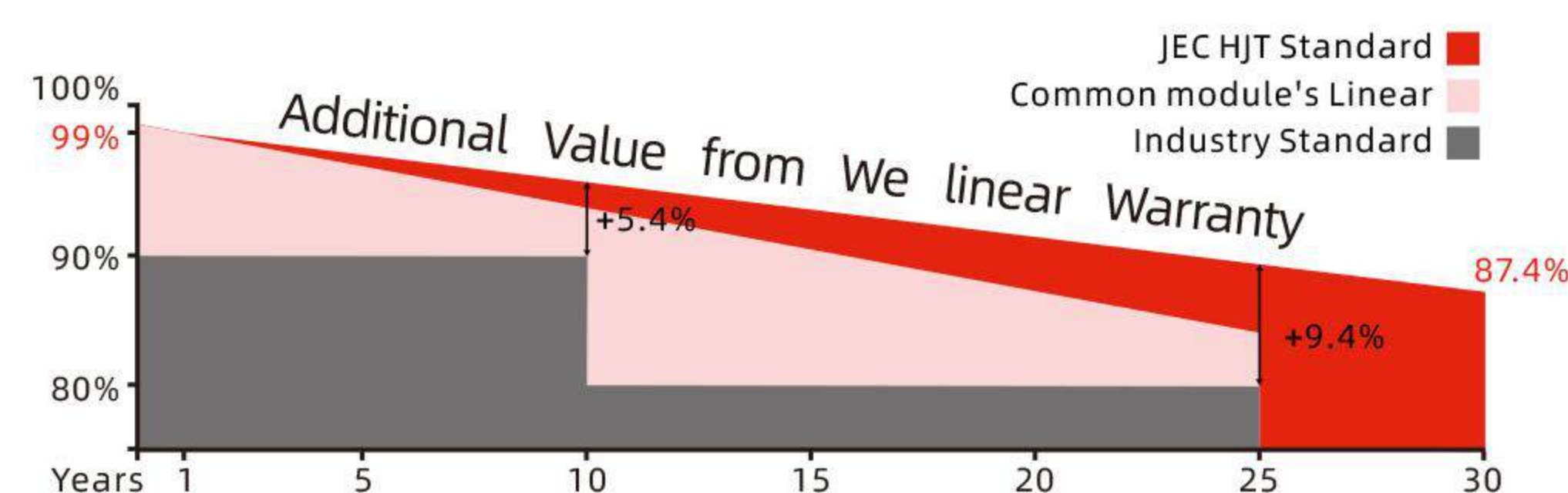
1500V

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



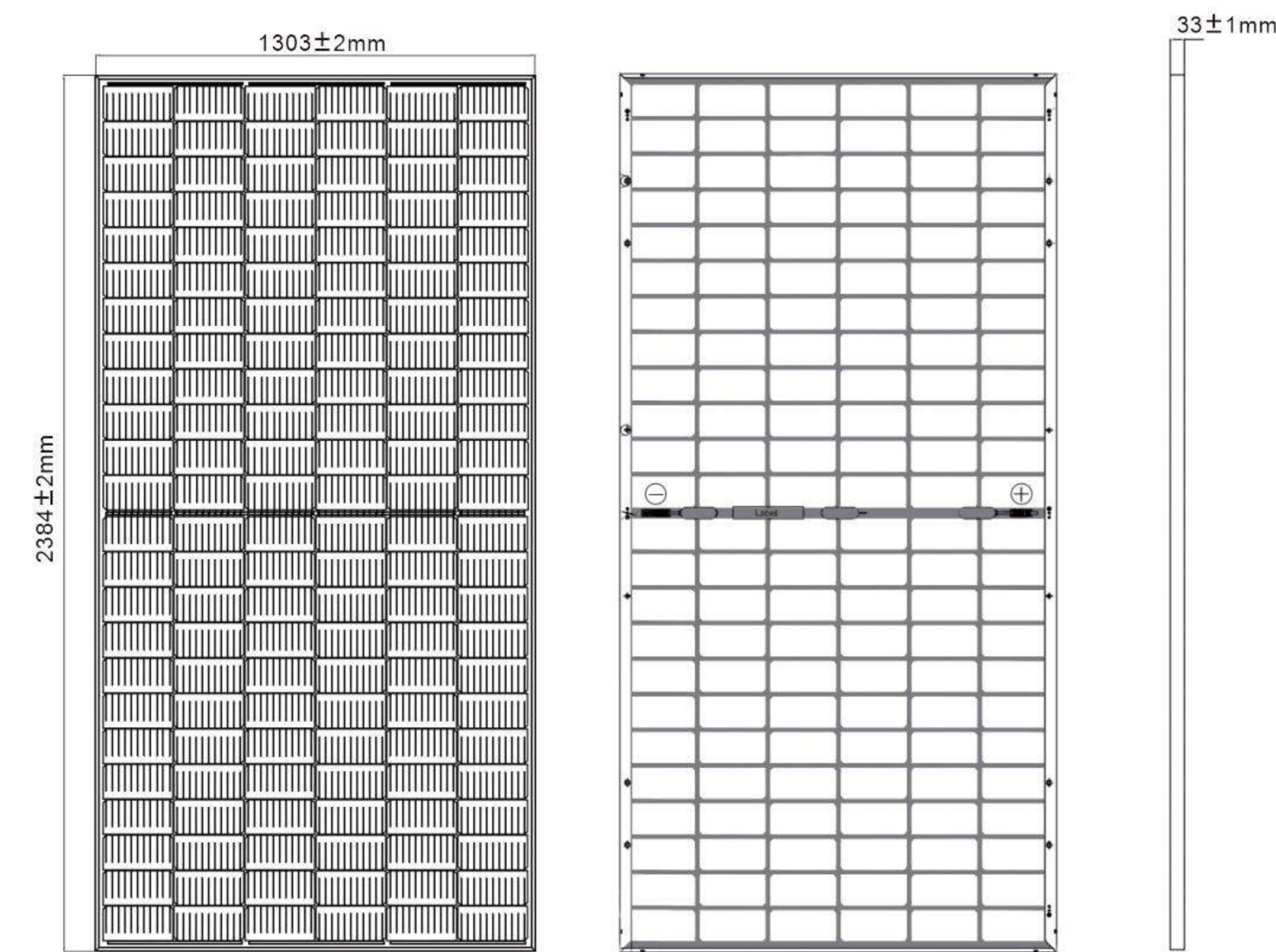
Address: No.587 Taoyuan Road, Jiaxing, Zhejiang, P.R.China
Tel: +86-0573-82651222 Fax: +86-0573-82651223
Web: www.cetcsolarpv.com



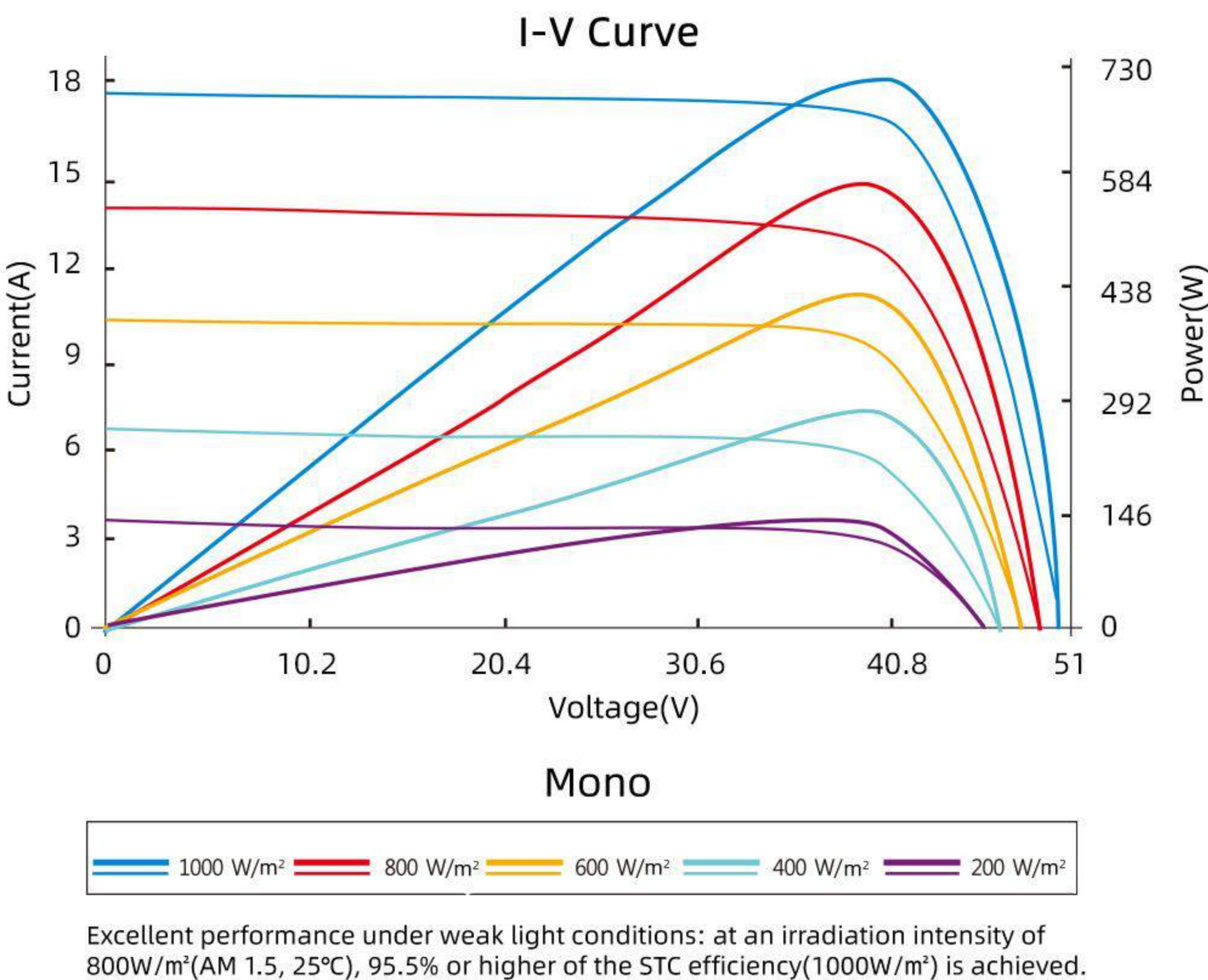
浙江嘉科新能源环保科技有限公司
ZHEJIANG JEC NEW ENERGY TECHNOLOGY CO.,LTD

HJT 210mm
NES132/700-725W
Bifacial Double Glass
MBB Half Cell Solar Panel

Engineering Drawing



CETC
中国电子科技集团有限公司
浙江嘉科新能源环保科技有限公司
ZHEJIANG JEC NEW ENERGY TECHNOLOGY CO.,LTD



Electrical Characteristics

STC	NES132-8-700M	NES132-8-705M	NES132-8-710M	NES132-8-715M	NES132-8-720M	NES132-8-725M
MAXIMUM POWER(PMAX)	700W	705W	710W	715W	720W	725W
Optimum Operating Voltage(Vmp)	41.78V	41.86V	41.93V	42.00V	42.08V	42.14V
Optimum Operating Current(Imp)	16.77A	16.86A	16.95A	17.05A	17.13A	17.23A
Open Circuit Voltage(Voc)	49.83V	49.92V	50.01V	50.09V	50.18V	50.26V
Short Circuit Current(Isc)	17.82A	17.91A	18.00A	18.10A	18.19A	18.29A
Module Efficiency	22.50%	22.70%	22.90%	23.00%	23.20%	23.30%
Operating Module Temperature	-40°C to +85°C					
Maximum System Voltage	1500V DC (IEC)					
Power Tolerance	0~+5W					
STC	Irradiance 1000 W/m², module temperature 25°C, AM=1.5; Best in Class AAA solar simulator (IEC 60904-9) used					

Mechanical Characteristics

Solar Cell	210mm N-type HJT
No. of Cells	132 (6x11x2)
Dimensions	2384±2mmx1303±2mmx33±1mm
Weight	37.5kg±0.5%
Superstrate	High Transmission
Substrate	Heat Strengthened Glass
Frame	Anodized Aluminium Alloy, Silver Color
Junction box	Potted, IP68, 1500VDC
Cables	4.0mm², Positive(+)350mm, Negative(-)230mm/Customized
Connectors	MC4 connectors

Temperature Characteristics

NOCT	43±2°C
Temperature Coefficient of Pmax	-0.240%/°C
Temperature Coefficient of Voc	-0.220%/°C
Temperature Coefficient of Isc	-0.047%/°C

Packing Configuration(33mm)

Per Pallet	33Piec
Per Container (40' HQ)	594Piec

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



Address: No.587 Taoyuan Road, Jiaying, Zhejiang, P.R.China
Tel: +86-0573-82651222 Fax: +86-0573-82651223
Web: www.cetcsolarpv.com

CETC 浙江嘉科新能源环保科技有限公司
ZHEJIANG JEC NEW ENERGY TECHNOLOGY CO.,LTD



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



Key Features



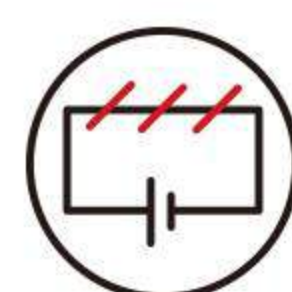
N-TOPCon Half Cell

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



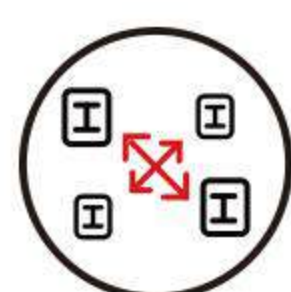
Extended Wind and Snow Load Tests

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



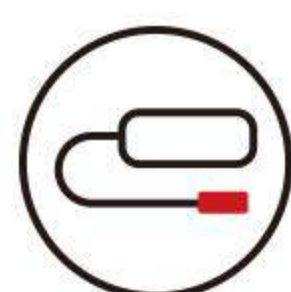
Current Sorting Process

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 reliability



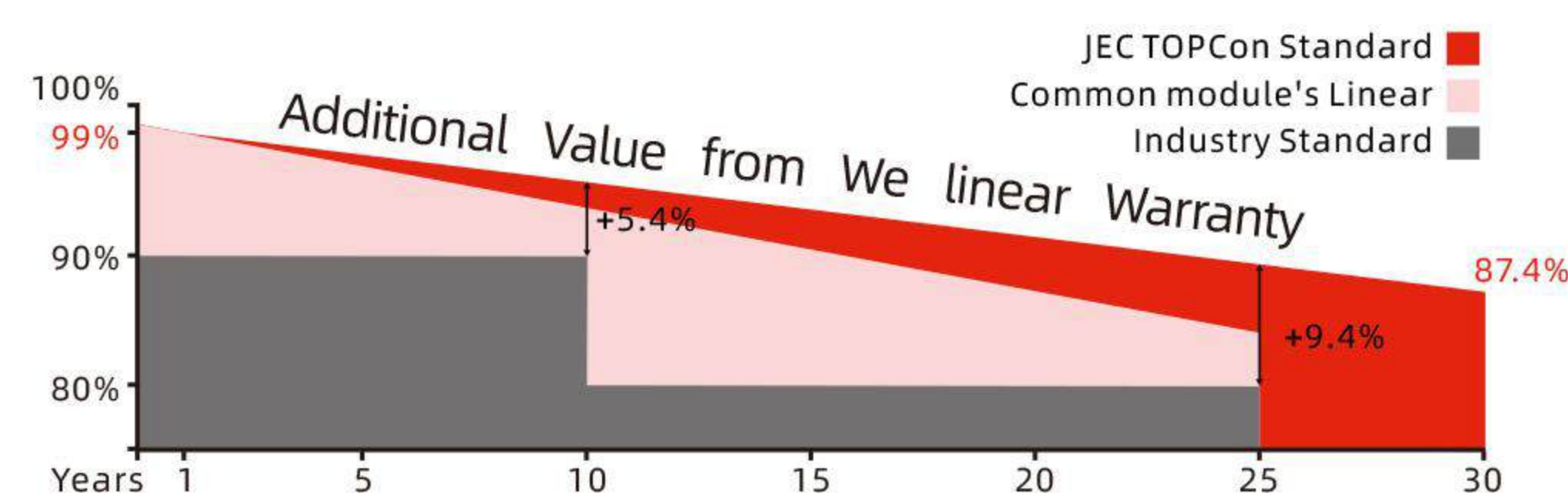
1500V

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



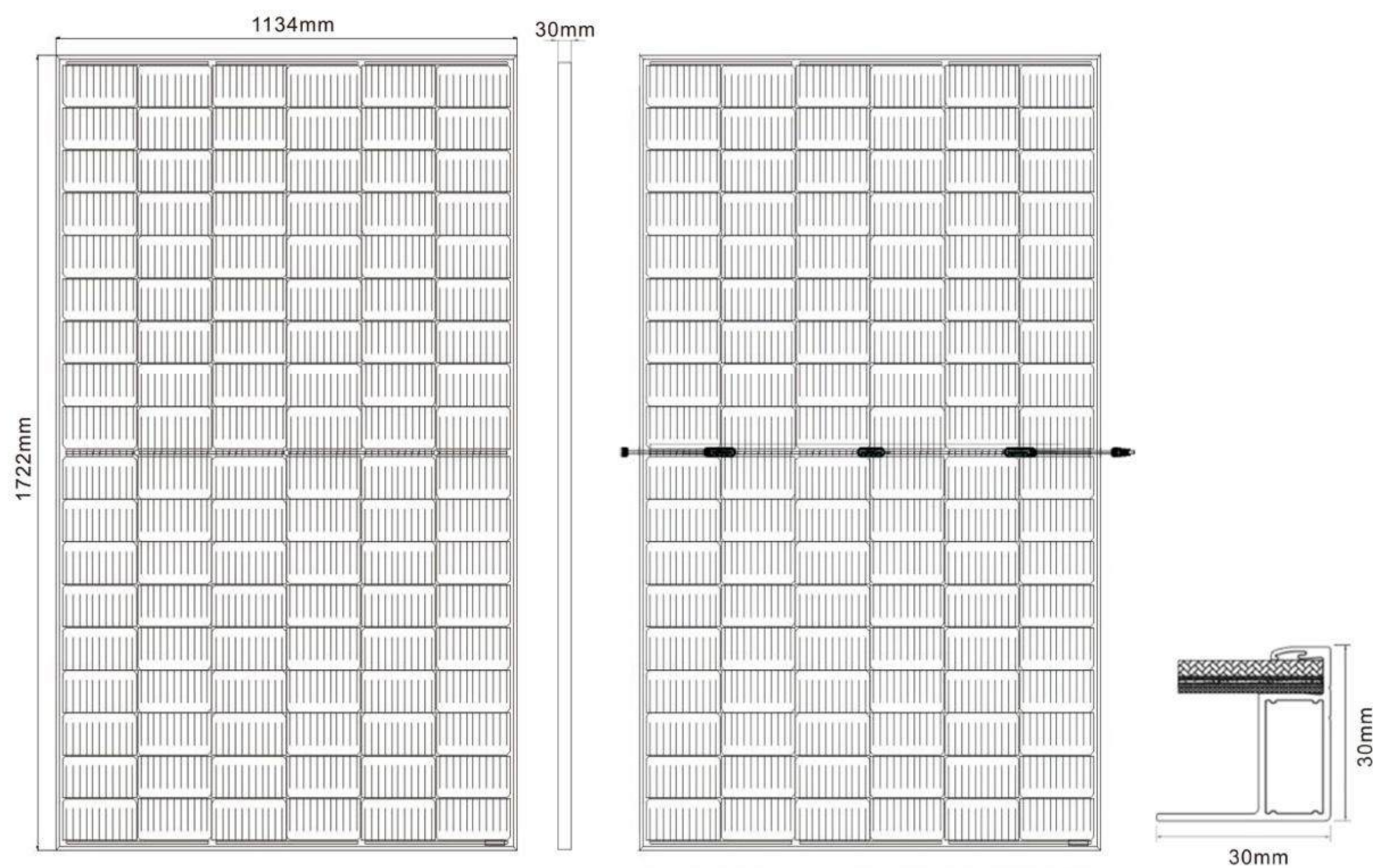
Address: No.587 Taoyuan Road, Jiaxing, Zhejiang, P.R.China
Tel: +86-0573-82651222 Fax: +86-0573-82651223
Web: www.cetcsolarpv.com



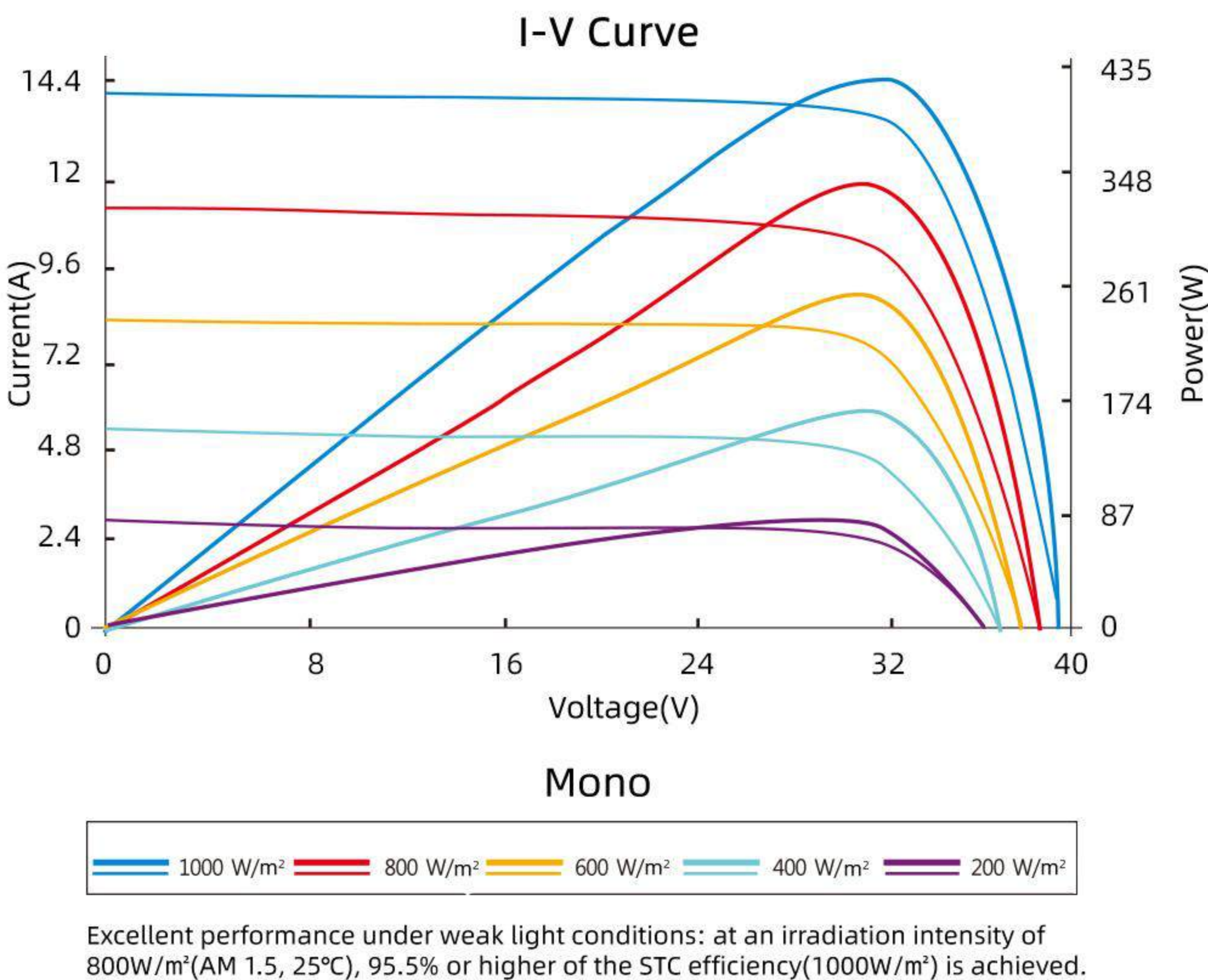
浙江嘉科新能源环保科技有限公司
ZHEJIANG JEC NEW ENERGY TECHNOLOGY CO.,LTD

N-TOPCon 182mm
NES108/410-430W
Bifacial Double Glass
Half Cell Solar Panel

Engineering Drawing



CETC
中国电子科技集团有限公司
浙江嘉科新能源环保科技有限公司
ZHEJIANG JEC NEW ENERGY TECHNOLOGY CO.,LTD



Electrical Characteristics

STC	NES108-7-410M	NES108-7-415M	NES108-7-420M	NES108-7-425M	NES108-7-430M
MAXIMUM POWER(PMAX)	410W	415W	420W	425W	430W
Optimum Operating Voltage(Vmp)	31.81V	32.02V	32.23V	32.44V	32.65V
Optimum Operating Current(Imp)	12.89A	12.96A	13.03A	13.10A	13.17A
Open Circuit Voltage(Voc)	38.10V	38.34V	38.57V	38.81V	39.04V
Short Circuit Current(Isc)	13.82A	13.89A	13.96A	14.03A	14.01A
Module Efficiency	21.00%	21.25%	21.51%	21.76%	22.02%
Operating Module Temperature	-40℃ to +85℃				
Maximum System Voltage	1500V DC (IEC)				
Power Tolerance	0~+5W				
STC	Irradiance 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	108 (6x9x2)
Dimensions	1722mmx1134mmx30mm
Weight	21.5kg±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 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)	936Pieces

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



Address: No.587 Taoyuan Road, Jiaxing, Zhejiang, P.R.China
Tel: +86-0573-82651222 Fax: +86-0573-82651223
Web: www.cetcsolarpv.com

CETC 浙江嘉科新能源环保科技有限公司
ZHEJIANG JEC NEW ENERGY TECHNOLOGY CO.,LTD



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



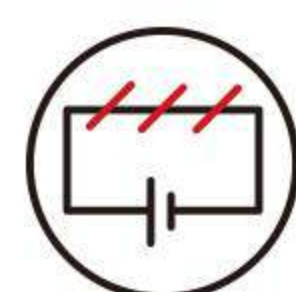
N-TOPCon Half Cell

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



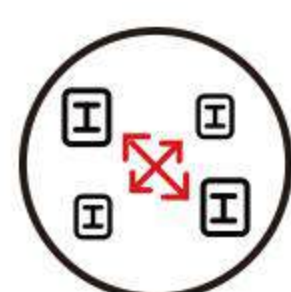
Extended Wind and Snow Load Tests

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



High PID Resistant

Advanced cell technology and qualified materials lead to high PID resistant



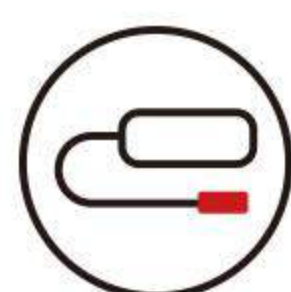
Current Sorting Process

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 reliability



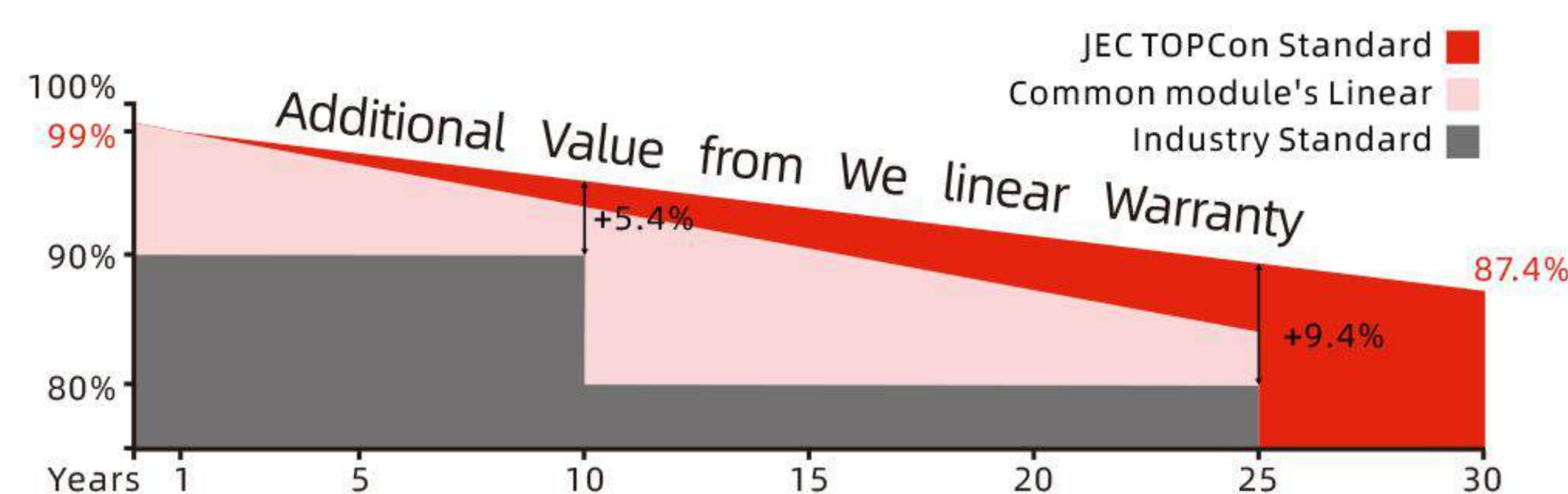
1500V

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



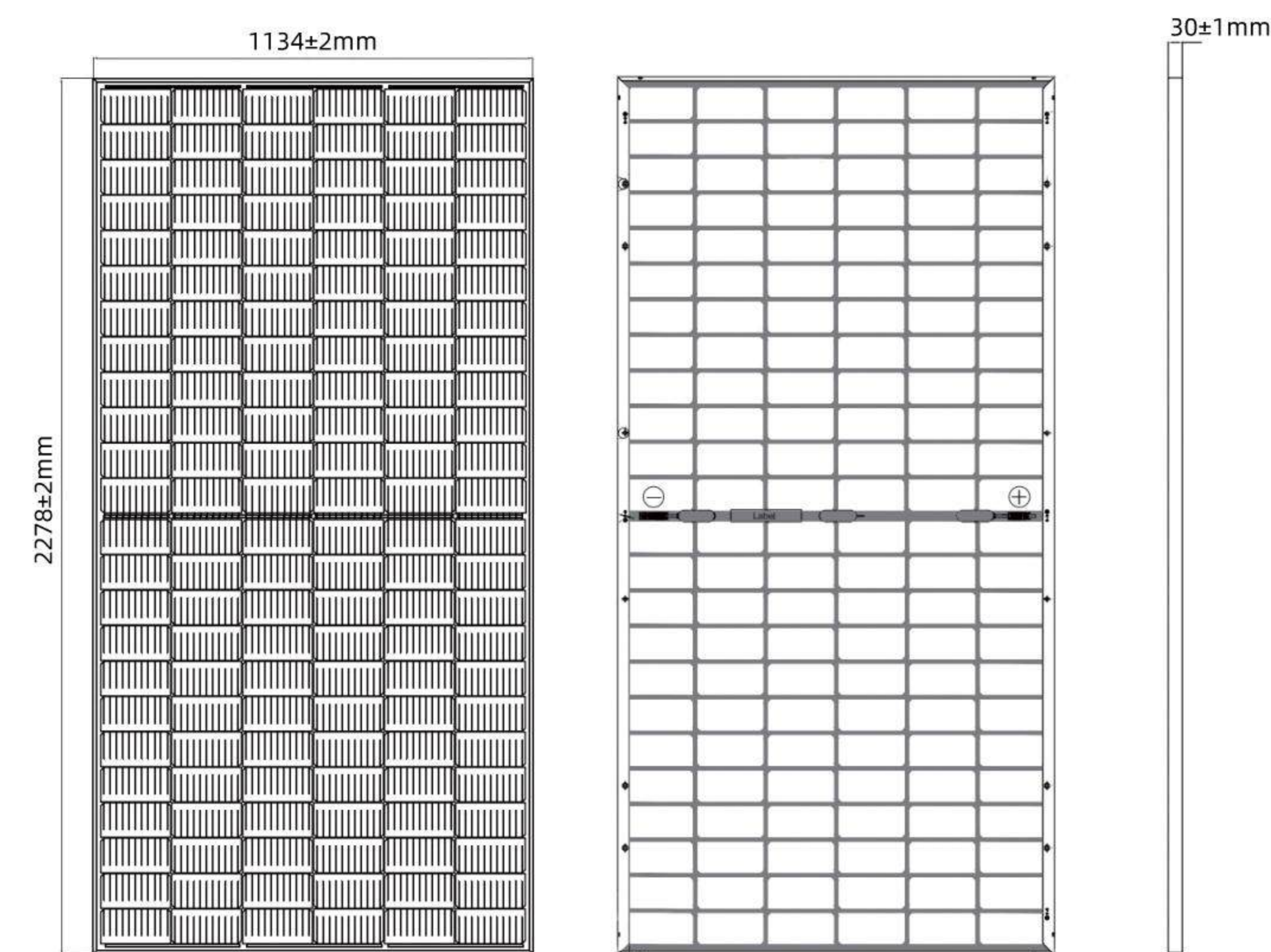
Address: No.587 Taoyuan Road, Jiaxing, Zhejiang, P.R.China
Tel: +86-0573-82651222 Fax: +86-0573-82651223
Web: www.cetcsolarpv.com



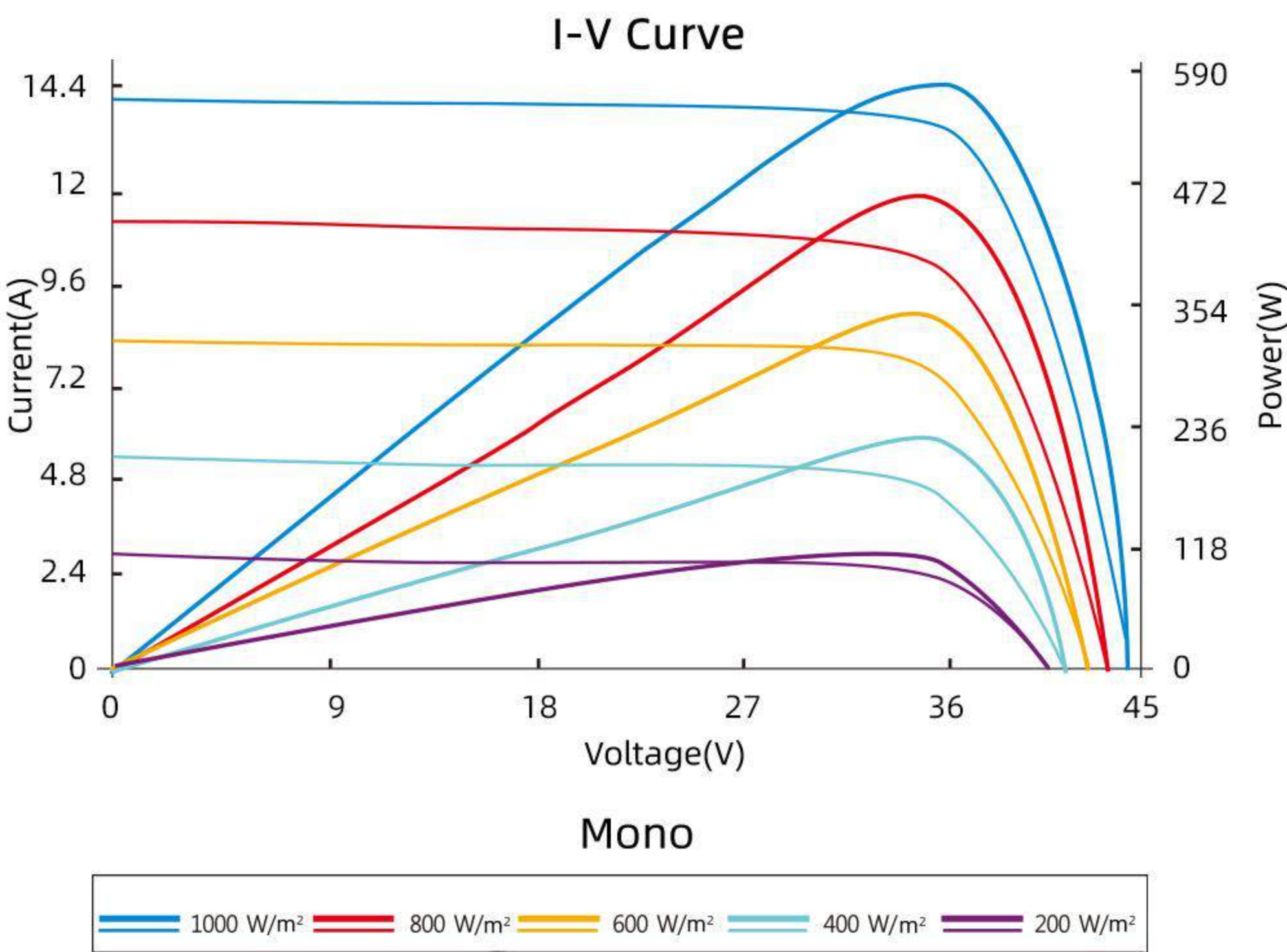
浙江嘉科新能源环保科技有限公司
ZHEJIANG JEC NEW ENERGY TECHNOLOGY CO.,LTD

N-TOPCon 182mm
NES144/575-585W
Bifacial Double Glass
MBB Half Cell Solar Panel

Engineering Drawing



中国电子科技集团有限公司
浙江嘉科新能源环保科技有限公司
ZHEJIANG JEC NEW ENERGY TECHNOLOGY CO.,LTD



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

Electrical Characteristics

STC	NES144-7-575M	NES144-7-580M	NES144-7-585M
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°C to +85°C		
Maximum System Voltage	1500V DC (IEC)		
Power Tolerance	0~+5W		
STC	Irradiance 1000 W/m², module temperature 25°C, 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°C
Temperature Coefficient of Pmax	-0.240%/°C
Temperature Coefficient of Voc	-0.220%/°C
Temperature Coefficient of Isc	-0.047%/°C

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.



Address: No.587 Taoyuan Road, Jiaxing, Zhejiang, P.R.China
Tel: +86-0573-82651222 Fax: +86-0573-82651223
Web: www.cetc solarpv.com



浙江嘉科新能源环保科技有限公司
ZHEJIANG JEC NEW ENERGY TECHNOLOGY CO.,LTD



N-TOPCon

NES120/590-630W

Bifacial Double Glass Half Cell Solar Panel

12-year product warranty

30-year linear power output warranty

590-630W /Output Power

22.26% /Maximum Efficiency

0~+5W /Power Tolerance

Certificates

*ISO9001:2015

*ISO14001:2015

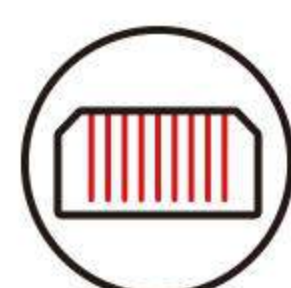
*ISO45001:2018

*TUV、CE、SGS、INMETRO、ROHS、IEC



RoHS

Key Features



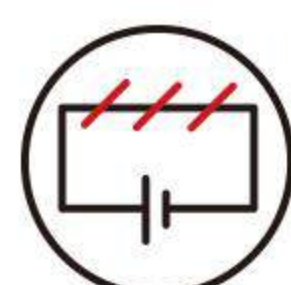
N-TOPCon Half Cell

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(5400 Pascal)



High PID Resistant

Advanced cell technology and qualified materials lead to high PID resistant



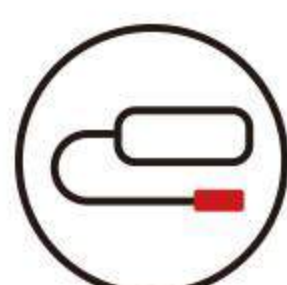
Current Sorting Process

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 reliability



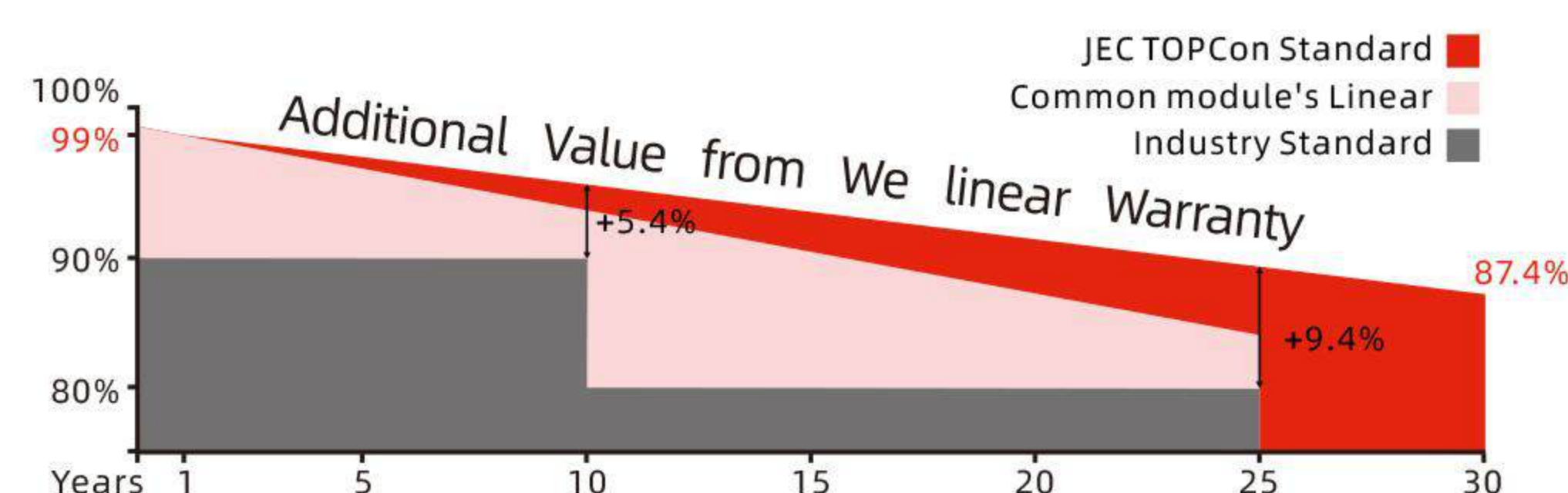
1500V

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



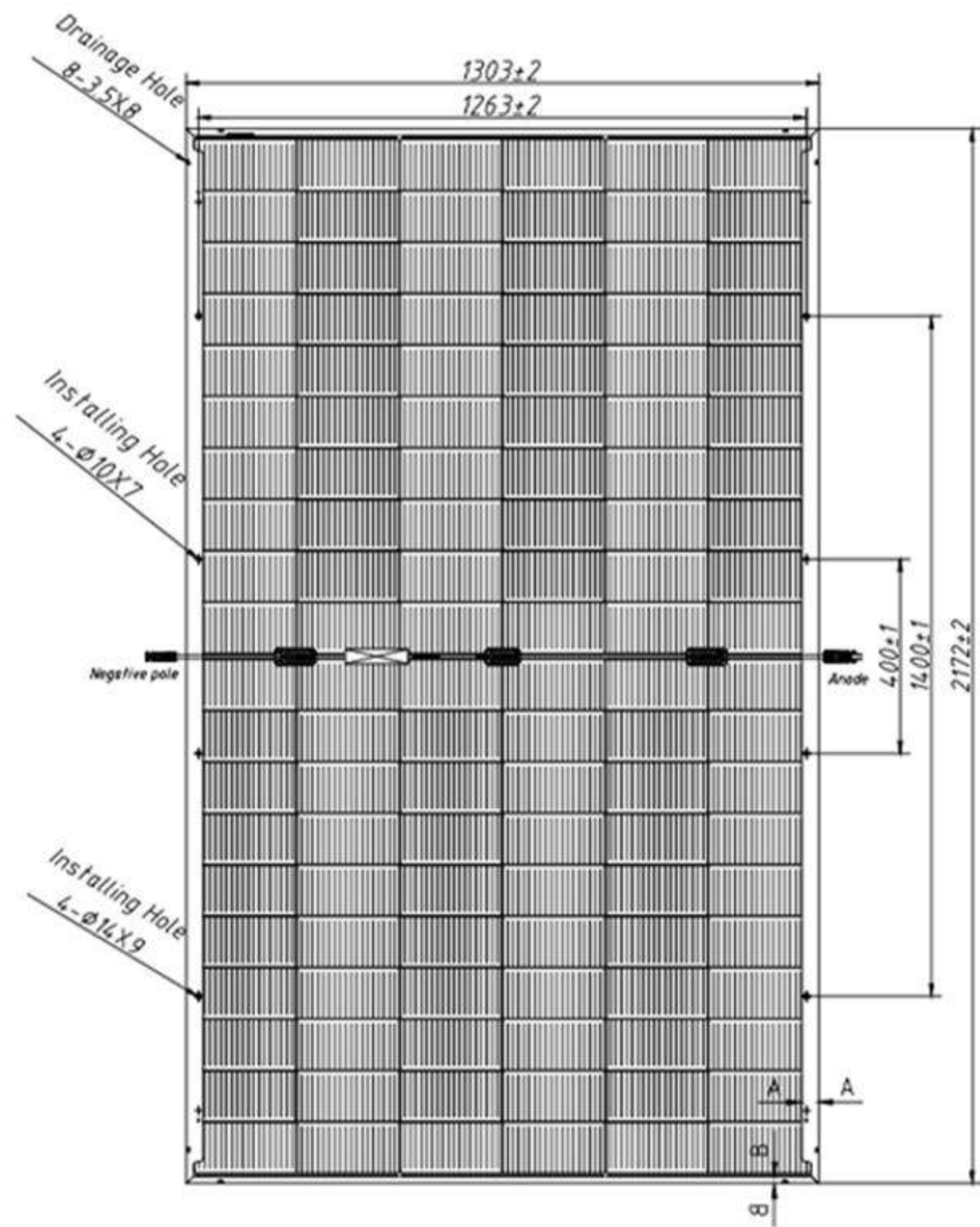
Address: No.587 Taoyuan Road, Jiaxing, Zhejiang, P.R.China
Tel: +86-0573-82651222 Fax: +86-0573-82651223
Web: www.cetcsolarpv.com



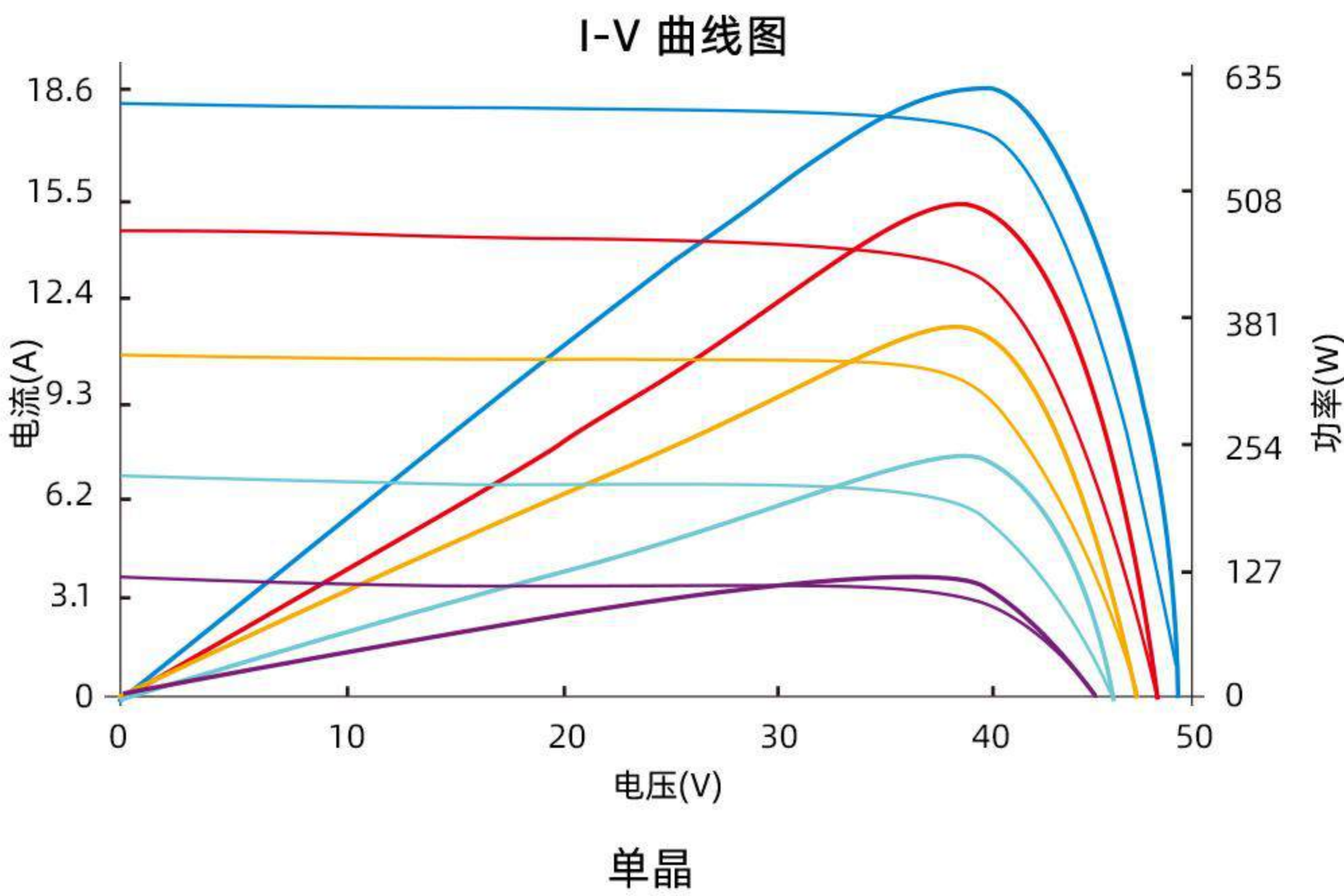
浙江嘉科新能源环保科技有限公司
ZHEJIANG JEC NEW ENERGY TECHNOLOGY CO.,LTD

N-TOPCon 210mm
NES120/590-630W
Bifacial Double Glass
Half Cell Solar Panel

Engineering Drawing



中国电子科技集团有限公司
浙江嘉科新能源环保科技有限公司
ZHEJIANG JEC NEW ENERGY TECHNOLOGY CO.,LTD



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

Electrical Characteristics

STC	NES120-8-590M	NES120-8-595M	NES120-8-600M	NES120-8-605M	NES120-8-610M	NES120-8-615M	NES120-8-620M	NES120-8-625M	NES120-8-630M
MAXIMUM POWER(PMAX)	590W	595W	600W	605W	610W	615W	620W	625W	630W
Optimum Operating Voltage(Vmp)	34.50V	34.70V	34.90V	35.10V	35.30V	35.50V	35.70V	35.90V	36.10V
Optimum Operating Current(Imp)	17.11A	17.15A	17.20A	17.24A	17.29A	17.33A	17.37A	17.41A	17.46A
Open Circuit Voltage(Voc)	41.70V	41.90V	42.10V	42.30V	42.50V	42.70V	42.90V	43.10V	43.30V
Short Circuit Current(Isc)	18.01A	18.06A	18.11A	18.16A	18.21A	18.26A	18.31A	18.36A	18.41A
Module Efficiency	20.85%	21.02%	21.20%	21.38%	21.55%	21.73%	21.91%	22.08%	22.26%
Operating Module Temperature	-40°C to +85°C								
Maximum System Voltage	1500V DC (IEC)								
Power Tolerance	0~+5W								
STC	Irradiance 1000 W/m², module temperature 25°C, AM=1.5; Best in Class AAA solar simulator (IEC 60904-9) used								

Mechanical Characteristics

Solar Cell	210mm MBB N-TOPCon
No. of Cells	120 (6x10x2)
Dimensions	2172±1mmx1303±1mmx30/35±1mm
Weight	35.3kg±0.5%
Superstrate	HighTransmission, AR Coated Heat Strengthened Glass
Substrate	Heat Strengthened Glass
Frame	Anodized Aluminium Alloy
Junction box	IP68 rated
Cables	TÜV (2Pfg1169:2007) 4.0 mm²(0.006 inches²), 300mm/Customized
Connectors	MC4 connectors

Temperature Characteristics

NOCT	43±2°C
Temperature Coefficient of Pmax	-0.290%/°C
Temperature Coefficient of Voc	-0.240%/°C
Temperature Coefficient of Isc	-0.040%/°C

Packing Configuration(30/35mm)

Per Pallet	36/31Pieces
Per Container (40' HQ)	720/620Pieces

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



Address: No.587 Taoyuan Road, Jiaxing, Zhejiang, P.R.China
Tel: +86-0573-82651222 Fax: +86-0573-82651223
Web:www.cetcsolarpv.com



浙江嘉科新能源环保科技有限公司
ZHEJIANG JEC NEW ENERGY TECHNOLOGY CO.,LTD



CETC

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

Key Features



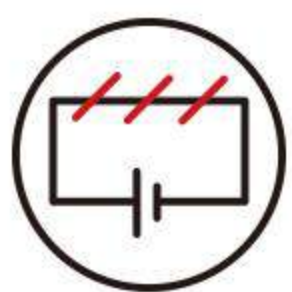
N-TOPCon Half Cell

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



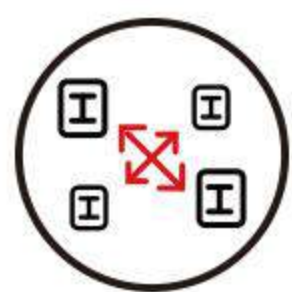
Extended Wind and Snow Load Tests

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



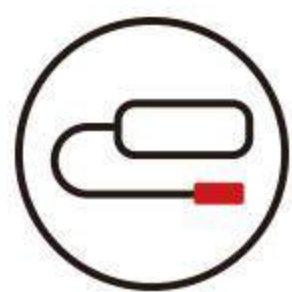
Current Sorting Process

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 reliability



1500V

Backsheet and junction box supporting 1500V system

Certificates

*ISO9001:2015

*ISO14001:2015

*ISO45001:2018

*TUV、CE、CQC、SGS、INMETRO、DEKRA

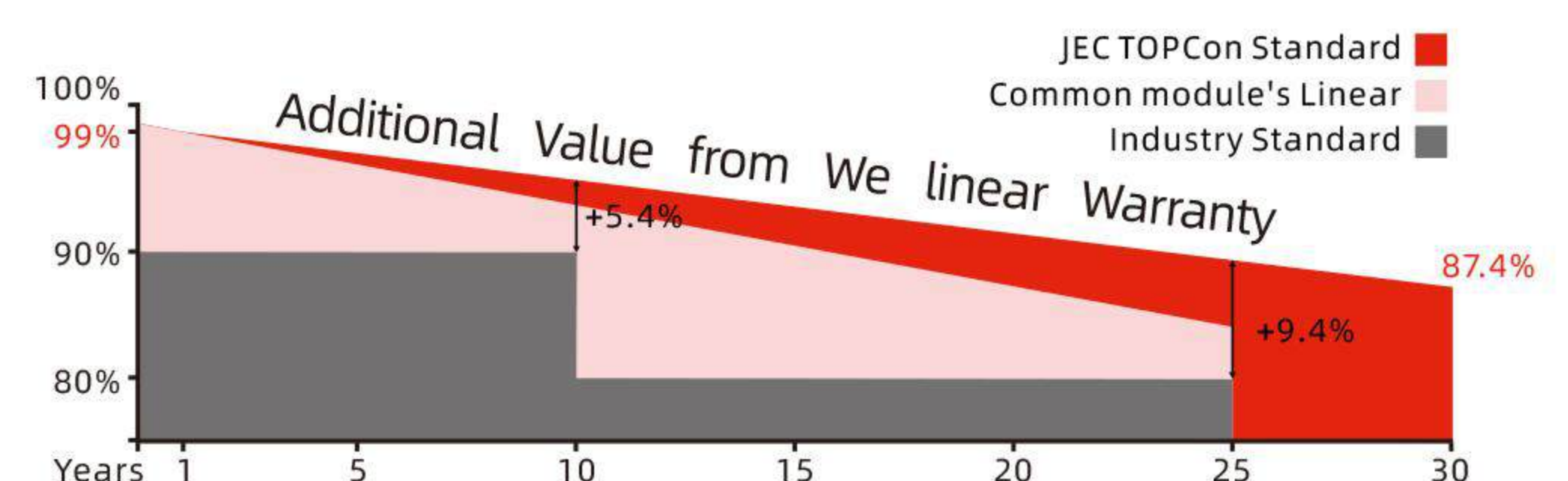


RoHS

Quality Guarantee

≤1% The first year attenuation

0.4% Annual Degradation over 30 years



● 30-year linear power output warranty

● 12-year product warranty



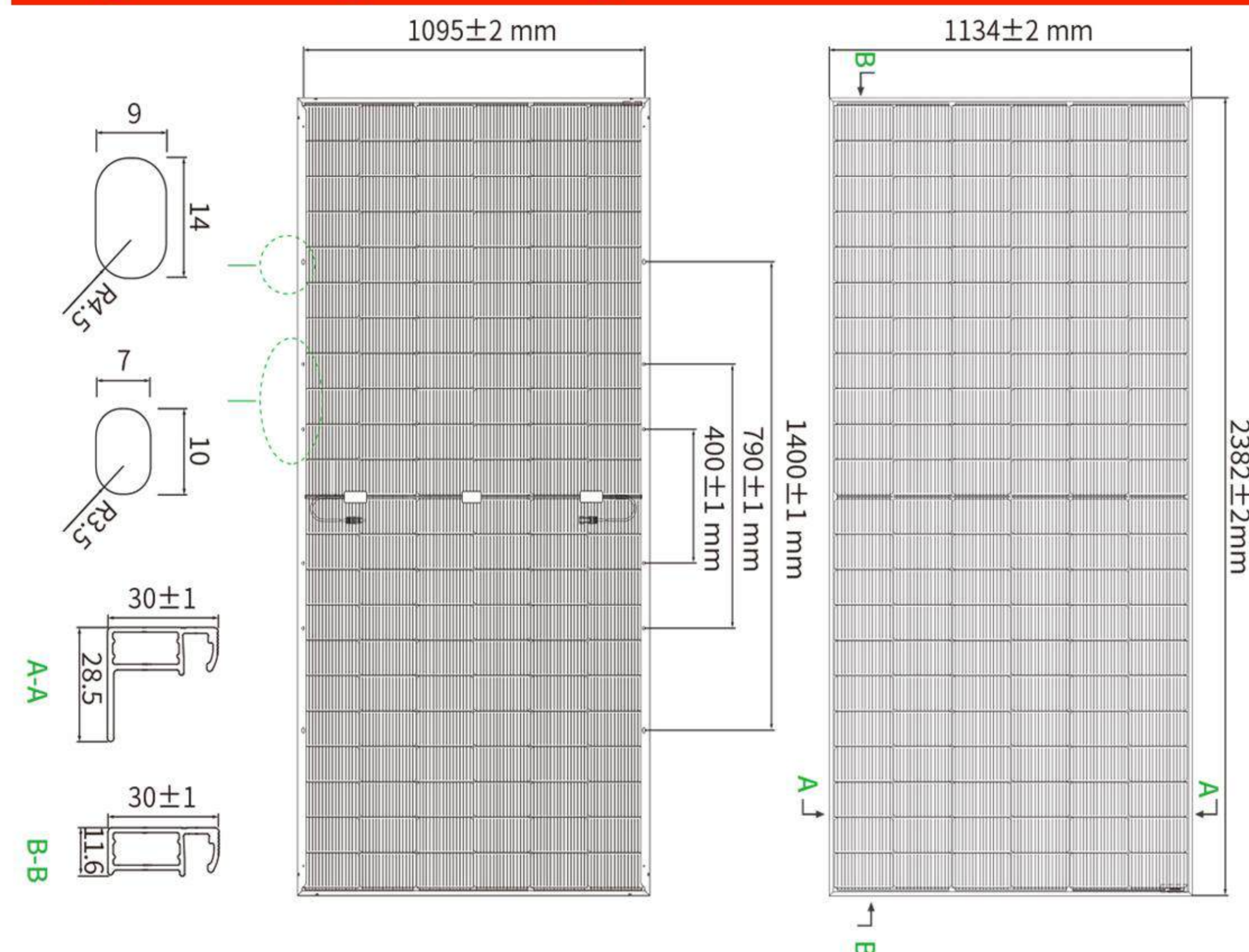
Address: No.587 Taoyuan Road, Jiaxing, Zhejiang, P.R.China
Tel: +86-0573-82651222 Fax: +86-0573-82651223
Web: www.cetcsolarpv.com

CETC

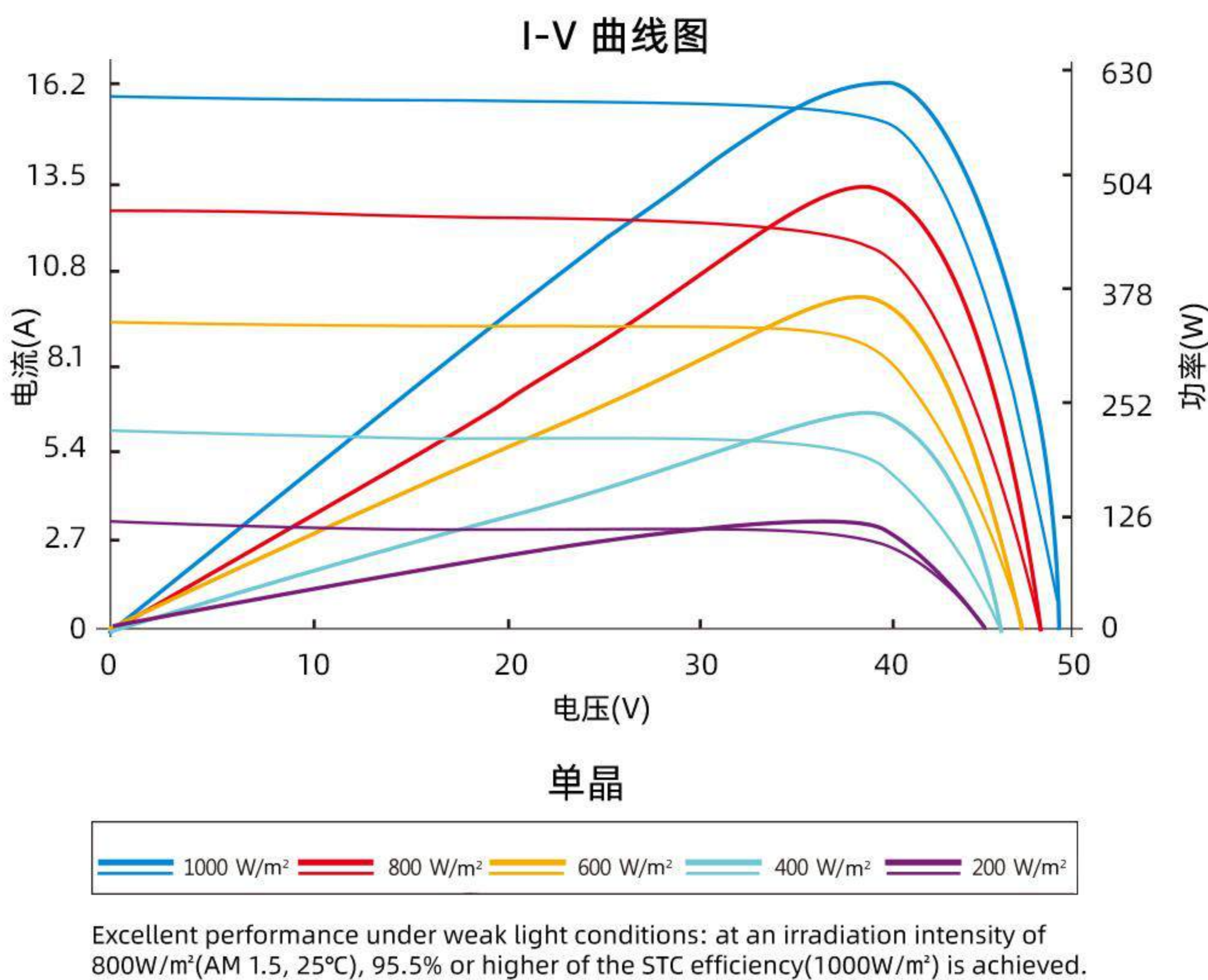
浙江嘉科新能源环保科技有限公司
ZHEJIANG JEC NEW ENERGY TECHNOLOGY CO.,LTD

N-TOPCon
NES132/605-625W
Bifacial Double Glass
Half Cell Solar Panel

Engineering Drawing



CETC
中国电子科技集团有限公司
浙江嘉科新能源环保科技有限公司
ZHEJIANG JEC NEW ENERGY TECHNOLOGY CO.,LTD



Electrical Characteristics

STC	NES132-605M	NES132-610M	NES132-615M	NES132-620M	NES132-625M
MAXIMUM POWER(PMAX)	605W	610W	615W	620W	625W
Optimum Operating Voltage(Vmp)	40.31V	40.46V	40.60V	40.74V	40.88V
Optimum Operating Current(Imp)	15.01A	15.08A	15.15A	15.22A	15.29A
Open Circuit Voltage(Voc)	48.48V	48.68V	48.88V	49.08V	49.28V
Short Circuit Current(Isc)	15.90A	15.96A	16.02A	16.08A	16.14A
Module Efficiency	22.40%	22.58%	22.77%	22.95%	23.14%
Operating Module Temperature	-40°C to +70°C				
Maximum System Voltage	1500V DC (IEC)				
Power Tolerance	0~+5W				
STC	Irradiance 1000 W/m², module temperature 25°C, AM=1.5; Best in Class AAA solar simulator (IEC 60904-9) used				

Mechanical Characteristics

Solar Cell	182x210mm MBB N-TOPCon
No. of Cells	132 (6x11x2)
Dimensions	2382±1mmx1134±1mmx30±1mm
Weight	32.4kg±0.5%
Superstrate	2.0mm, Anti-reflection Coating
Substrate	2.0mm,Heat Strengthened Glass
Frame	Anodized Aluminium Alloy
Junction box	IP68 rated
Cables	TÜV (2Pfg1169:2007)
	4.0 mm²(0.006 inches²), 200mm/Customized
Connectors	MC4 connectors

Temperature Characteristics

NOCT	43±2°C
Temperature Coefficient of Pmax	-0.290%/°C
Temperature Coefficient of Voc	-0.250%/°C
Temperature Coefficient of Isc	-0.045%/°C

Packing Configuration(30mm)

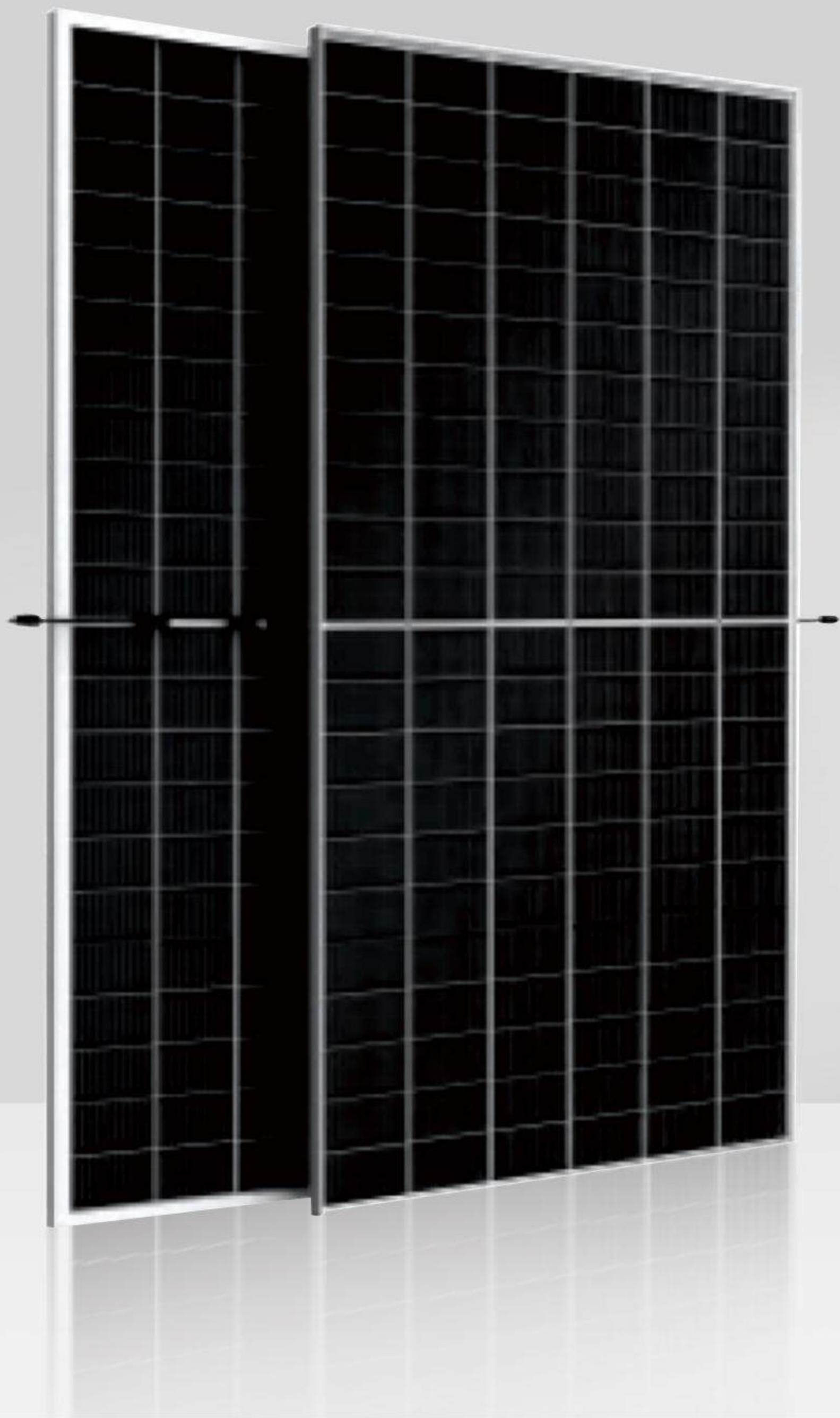
Per Pallet	36Pieces
Per Container (40' HQ)	720Pieces

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



Address: No.587 Taoyuan Road, Jiaxing, Zhejiang, P.R.China
Tel: +86-0573-82651222 Fax: +86-0573-82651223
Web:www.cetcsolarpv.com

CETC 浙江嘉科新能源环保科技有限公司
ZHEJIANG JEC NEW ENERGY TECHNOLOGY CO.,LTD



CETC

N-TOPCon

NES132/675-700W

**Bifacial Double Glass
Half Cell Solar Panel**

12-year product warranty

30-year linear power output warranty

675-700W /Output Power

22.50% /Maximum Efficiency

0~+5W /Power Tolerance

Certificates

*ISO9001:2015

*ISO14001:2015

*ISO45001:2018

*TUV、CE、CQC、SGS、INMETRO、DEKRA



RoHS

Key Features



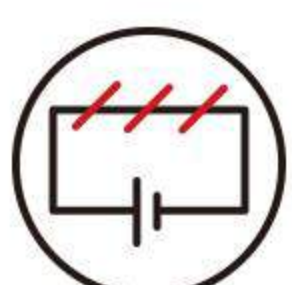
N-TOPCon Half Cell

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



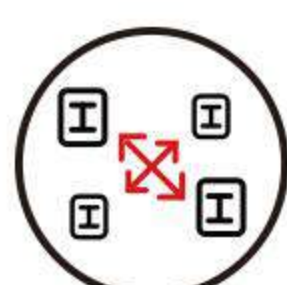
Extended Wind and Snow Load Tests

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



High PID Resistant

Advanced cell technology and qualified materials lead to high PID resistant



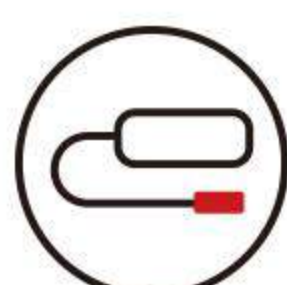
Current Sorting Process

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 reliability



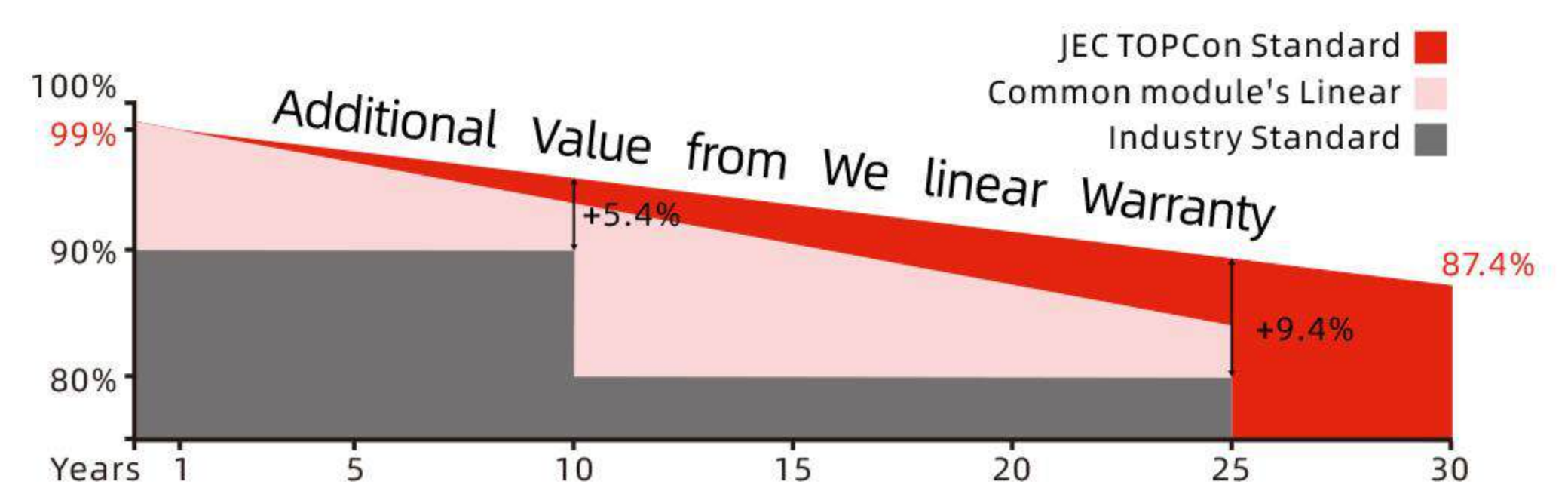
1500V

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



Address: No.587 Taoyuan Road, Jiaxing, Zhejiang, P.R.China

Tel: +86-0573-82651222 Fax: +86-0573-82651223

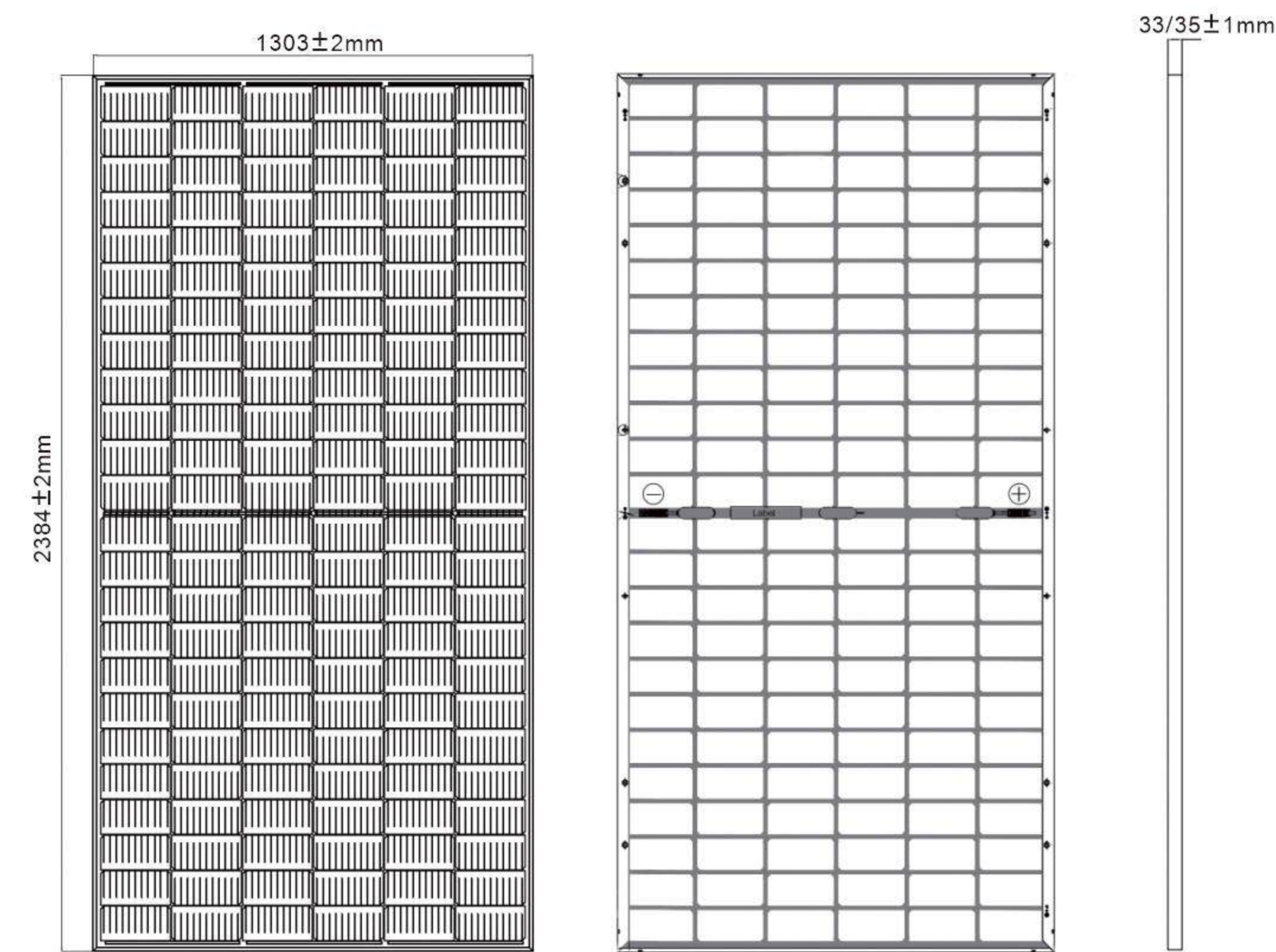
Web: www.cetcsolarpv.com



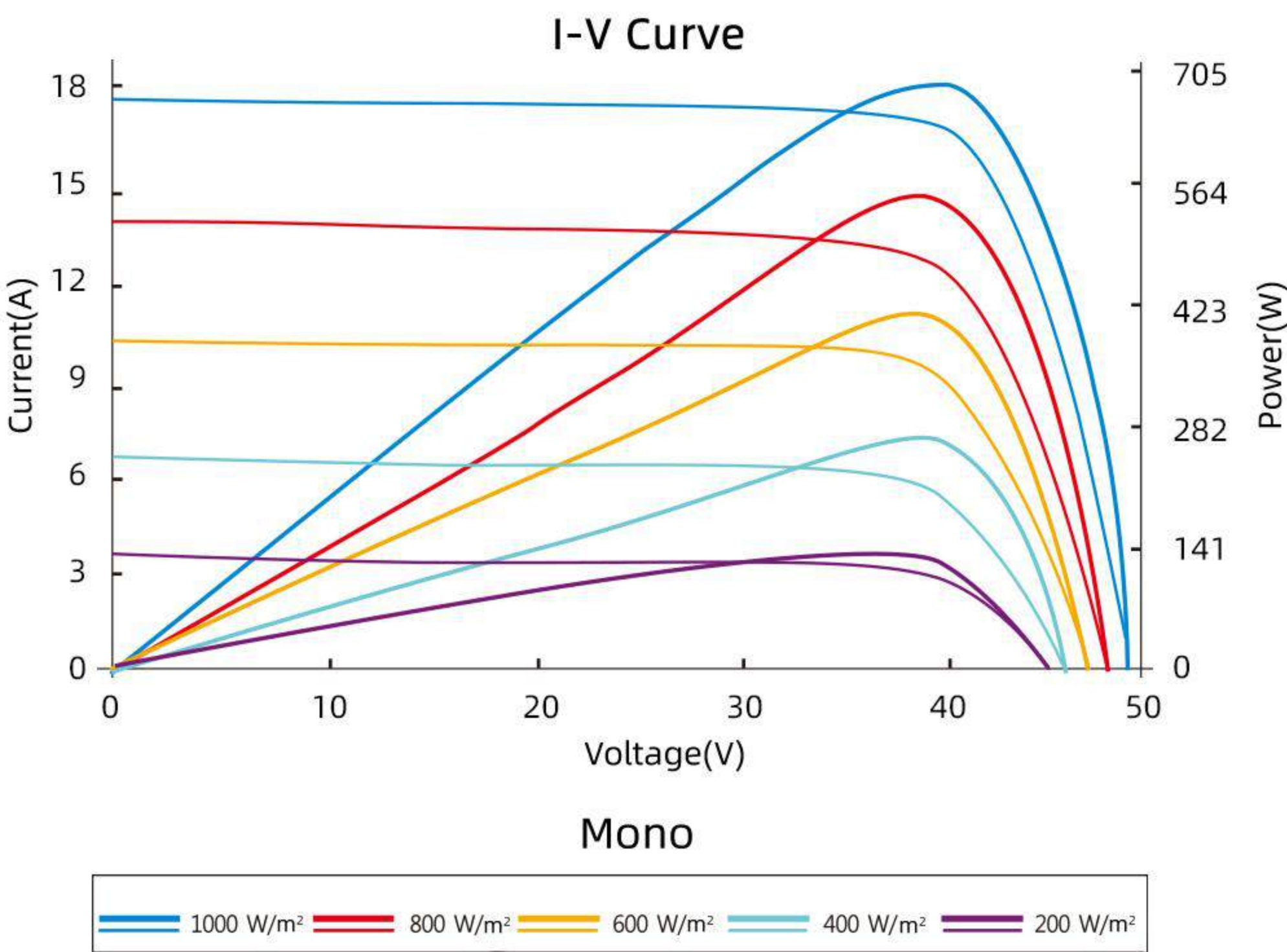
浙江嘉科新能源环保科技有限公司
ZHEJIANG JEC NEW ENERGY TECHNOLOGY CO.,LTD

N-TOPCon 210mm
NES132/675-700W
Bifacial Double Glass
Half Cell Solar Panel

Engineering Drawing



CETC
中国电子科技集团有限公司
浙江嘉科新能源环保科技有限公司
ZHEJIANG JEC NEW ENERGY TECHNOLOGY CO.,LTD



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

Electrical Characteristics

STC	NES132-8-675M	NES132-8-680M	NES132-8-685M	NES132-8-690M	NES132-8-695M	NES132-8-700M
MAXIMUM POWER(PMAX)	675W	680W	685W	690W	695W	700W
Optimum Operating Voltage(Vmp)	39.00V	39.20V	39.80V	40.10V	40.30V	40.50V
Optimum Operating Current(Imp)	17.31A	17.35A	17.19A	17.23A	17.25A	17.29A
Open Circuit Voltage(Voc)	46.90V	47.10V	47.70V	47.90V	48.30V	48.60V
Short Circuit Current(Isc)	18.24A	18.29A	18.21A	18.25A	18.28A	18.32A
Module Efficiency	21.73%	21.89%	22.10%	22.20%	22.40%	22.50%
Operating Module Temperature	-40°C to +85°C					
Maximum System Voltage	1500V DC (IEC)					
Power Tolerance	0~+5W					
STC	Irradiance 1000 W/m², module temperature 25°C, AM=1.5; Best in Class AAA solar simulator (IEC 60904-9) used					

Mechanical Characteristics

Solar Cell	210mm MBB N-TOPCon
No. of Cells	132 (6x11x2)
Dimensions	2384±2mmx1303±2mmx33/35±1mm
Weight	38kg±0.5%
Glass	2.0mm tempered glass
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	43±2°C
Temperature Coefficient of Pmax	-0.243%/°C
Temperature Coefficient of Voc	-0.223%/°C
Temperature Coefficient of Isc	-0.026%/°C

Packing Configuration(33/35mm)

Per Pallet	33/31Pieces
Per Container (40' HQ)	594/558Pieces

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



Address: No.587 Taoyuan Road, Jiaxing, Zhejiang, P.R.China
Tel: +86-0573-82651222 Fax: +86-0573-82651223
Web: www.cetcsolarpv.com

CETC 浙江嘉科新能源环保科技有限公司
ZHEJIANG JEC NEW ENERGY TECHNOLOGY CO.,LTD



N-TOPCon

NES132/695-710W

Bifacial Double Glass Half Cell Solar Panel

12-year product warranty

30-year linear power output warranty

695-710W /Output Power

22.90% /Maximum Efficiency

0~+5W /Power Tolerance

Certificates

*ISO9001:2015

*ISO14001:2015

*ISO45001:2018

TUV、CE、SGS、CQC、ROHS、INMETRO、CGC、IEC



Key Features



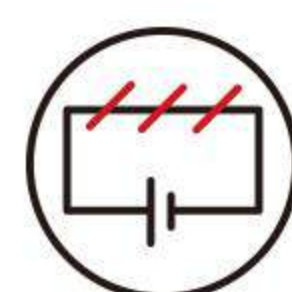
N-TOPCon Half Cell

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



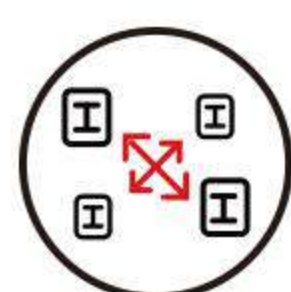
Extended Wind and Snow Load Tests

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



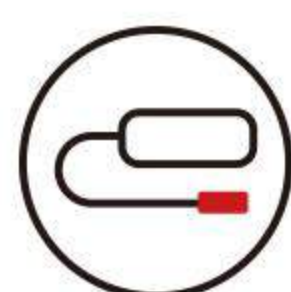
Current Sorting Process

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 reliability



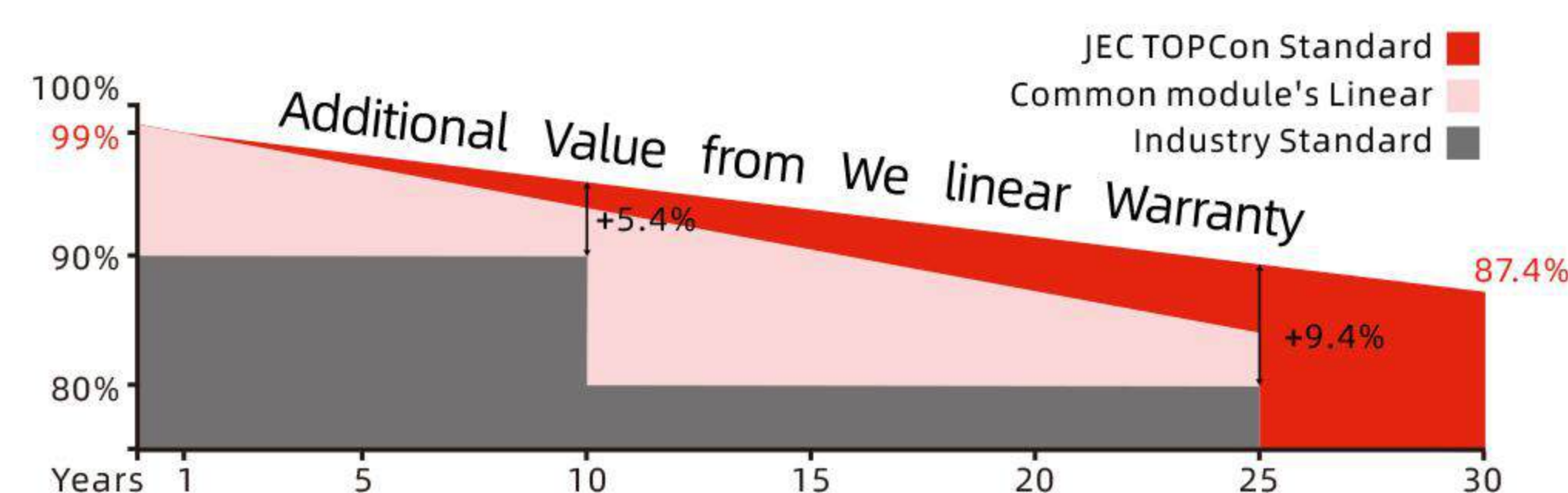
1500V

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



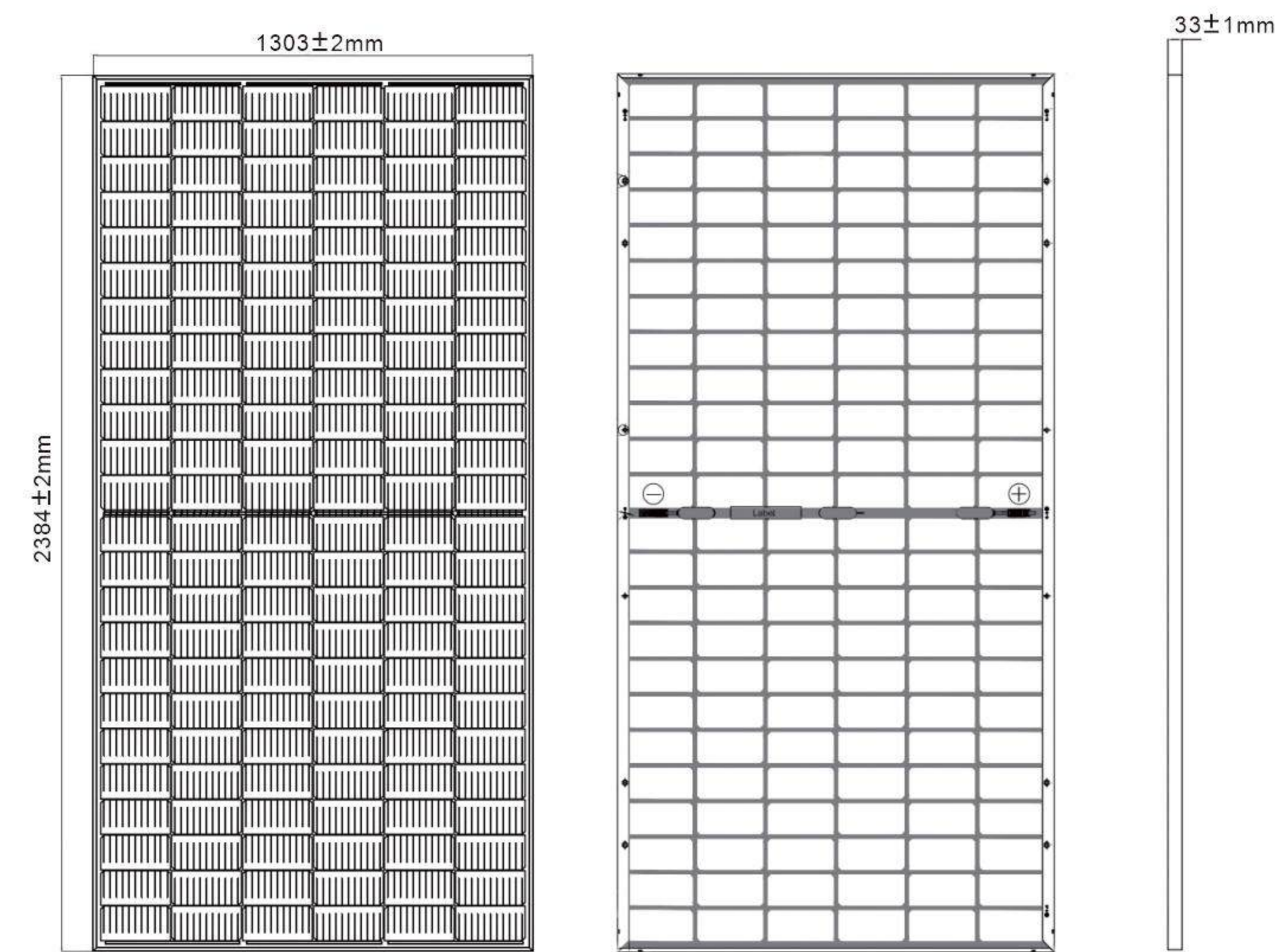
Address: No.587 Taoyuan Road, Jiaxing, Zhejiang, P.R.China
Tel: +86-0573-82651222 Fax: +86-0573-82651223
Web: www.cetcsolarpv.com



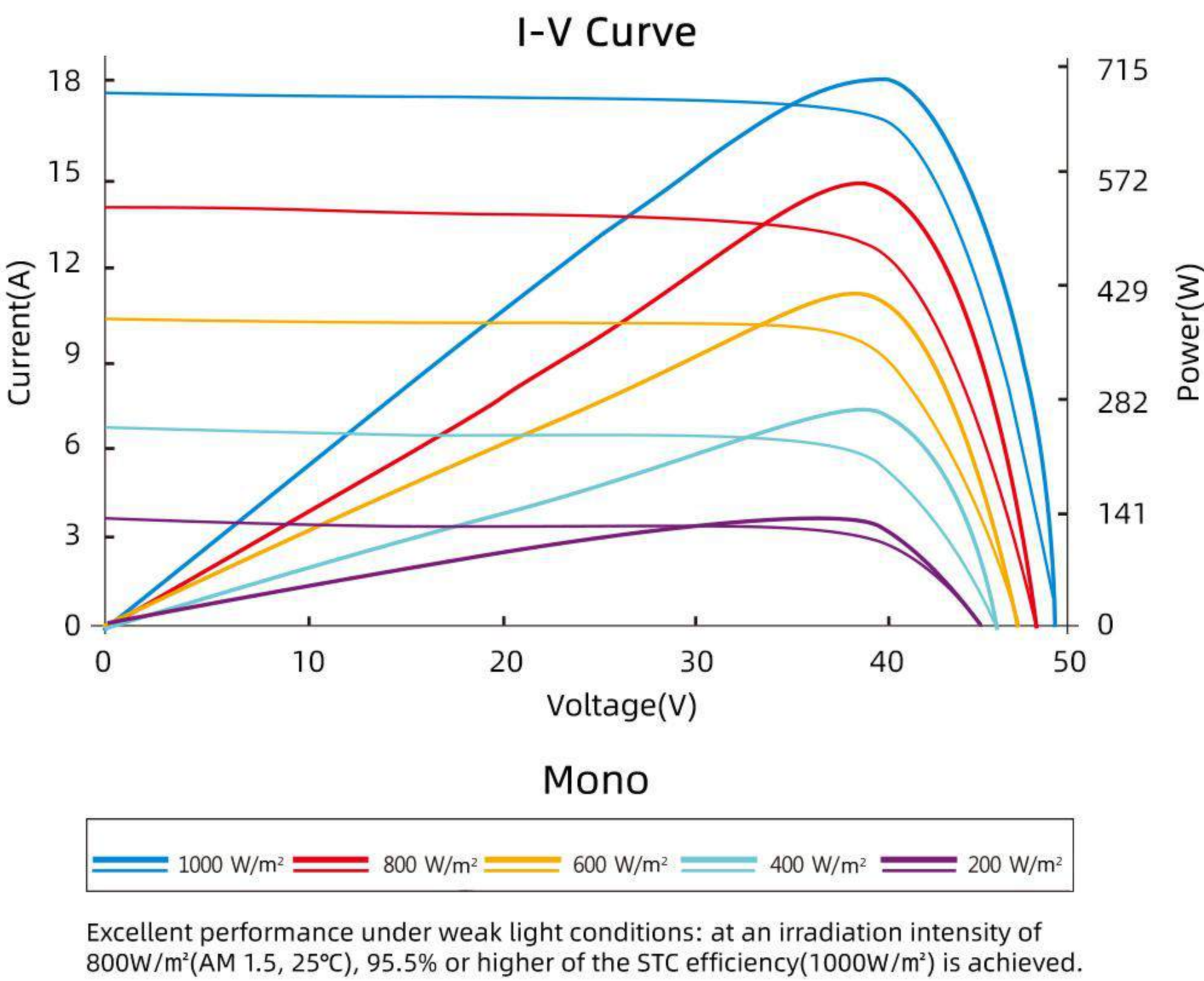
浙江嘉科新能源环保科技有限公司
ZHEJIANG JEC NEW ENERGY TECHNOLOGY CO.,LTD

N-TOPCon 210mm
NES132/695-710W
Bifacial Double Glass
Half Cell Solar Panel

Engineering Drawing



CETC
中国电子科技集团有限公司
浙江嘉科新能源环保科技有限公司
ZHEJIANG JEC NEW ENERGY TECHNOLOGY CO.,LTD



Electrical Characteristics

STC	NES132-8-695MHDG	NES132-8-700MHDG	NES132-8-705MHDG	NES132-8-710MHDG
MAXIMUM POWER(PMAX)	695W	700W	705W	710W
Optimum Operating Voltage(Vmp)	40.30V	40.50V	40.70V	40.90V
Optimum Operating Current(Imp)	17.25A	17.29A	17.33A	17.36A
Open Circuit Voltage(Voc)	48.30V	48.60V	48.80V	49.00V
Short Circuit Current(Isc)	18.28A	18.32A	18.36A	18.40A
Module Efficiency	22.40%	22.50%	22.70%	22.90%
Operating Module Temperature	-40°C to +85°C			
Maximum System Voltage	1500V DC (IEC)			
Power Tolerance	0~+5W			
STC	Irradiance 1000 W/m², module temperature 25°C, AM=1.5; Best in Class AAA solar simulator (IEC 60904-9) used			

Mechanical Characteristics

Solar Cell	210mm MBB N-TOPCon
No. of Cells	132 (6x11x2)
Dimensions	2384±2mmx1303±2mmx33±1mm
Weight	38kg±0.5%
Glass	2.0mm tempered glass
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	43±2°C
Temperature Coefficient of Pmax	-0.243%/°C
Temperature Coefficient of Voc	-0.223%/°C
Temperature Coefficient of Isc	-0.026%/°C

Packing Configuration(33mm)

Per Pallet	31Pieces
Per Container (40' HQ)	558Pieces

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



Address: No.587 Taoyuan Road, Jiaxing, Zhejiang, P.R.China
Tel: +86-0573-82651222 Fax: +86-0573-82651223
Web:www.cetcsolarpv.com

CETC 浙江嘉科新能源环保科技有限公司
ZHEJIANG JEC NEW ENERGY TECHNOLOGY CO.,LTD



CETIC

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

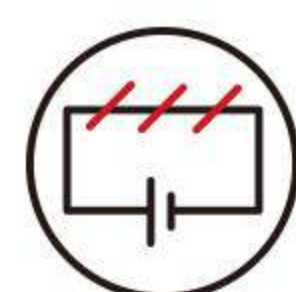
Key Features



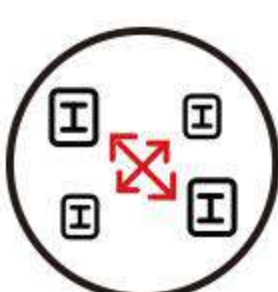
P/N-TOPConHalf Cell
The power of Half-cell solar panel increases, and the hot spot temperature reduces because of lower working current



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



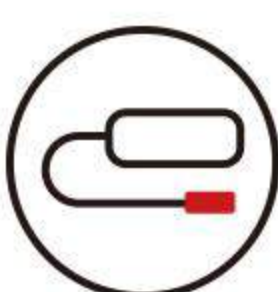
High PID Resistant
Advanced cell technology and qualified materials lead to high PID resistant



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

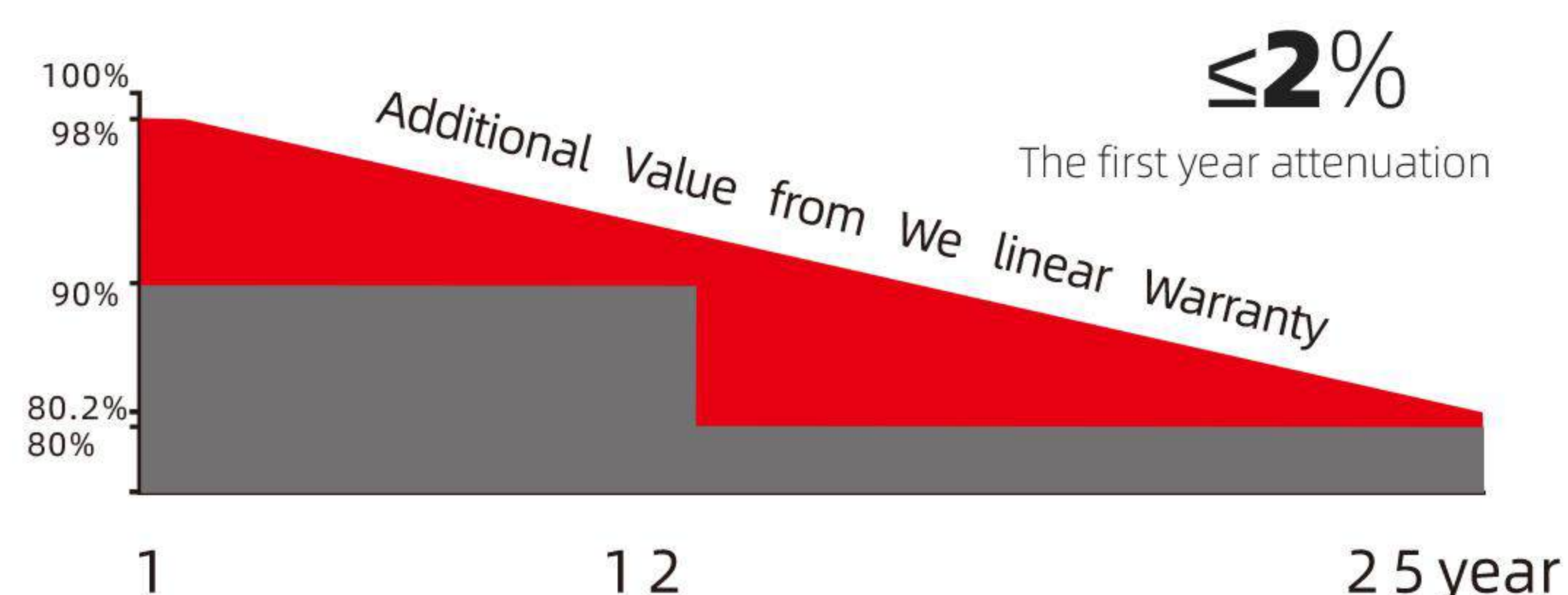


Positive Tolerance
Positive tolerance of up to 0~+5W delivers higher outputs reliability



1500V
Backsheet and junction box supporting 1500V system

Quality Guarantee



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



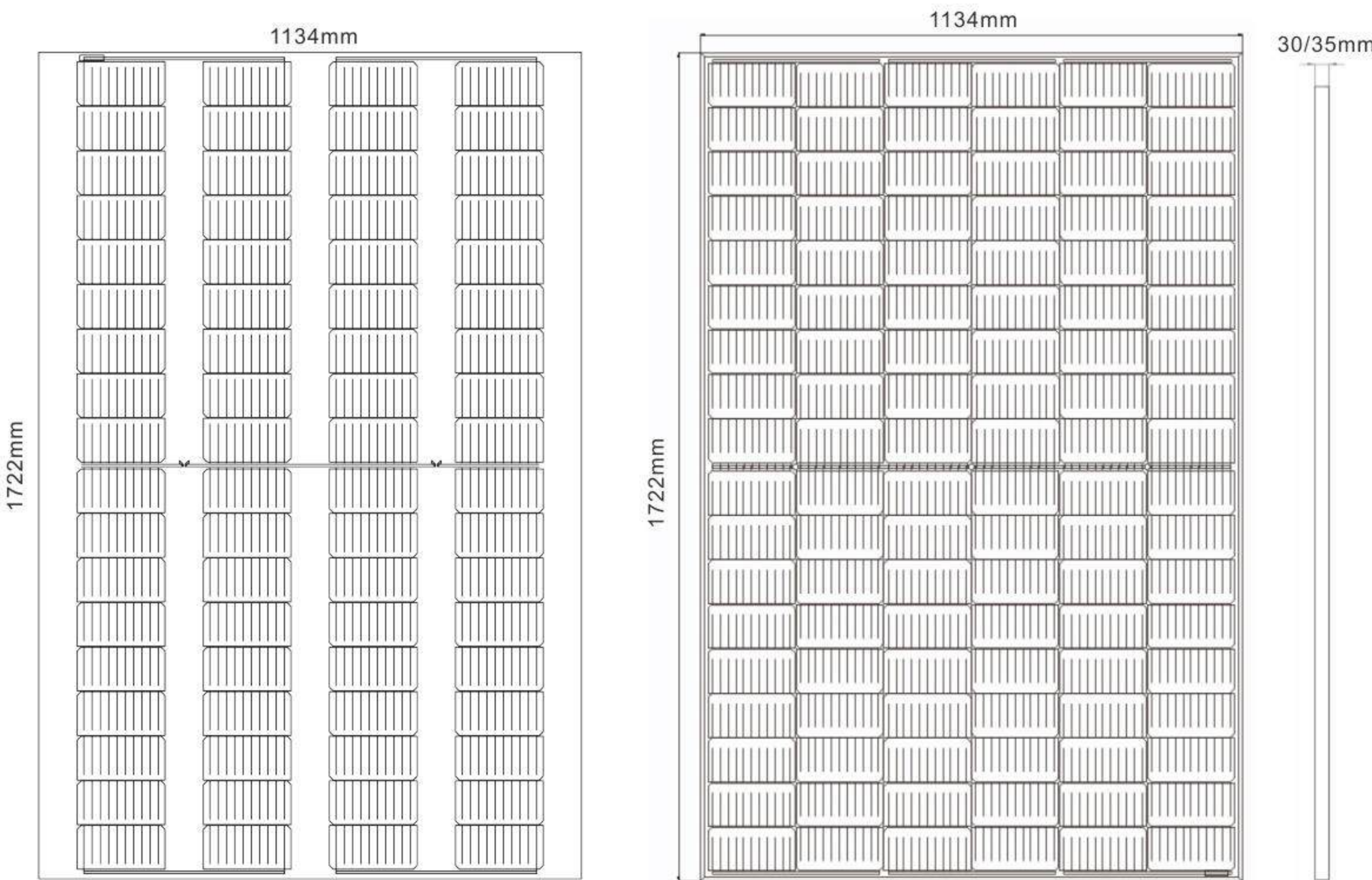
Address: No.587 Taoyuan Road, Jiaxing, Zhejiang, P.R.China
Tel: +86-0573-82651222 Fax: +86-0573-82651223
Web: www.cetcsolarpv.com



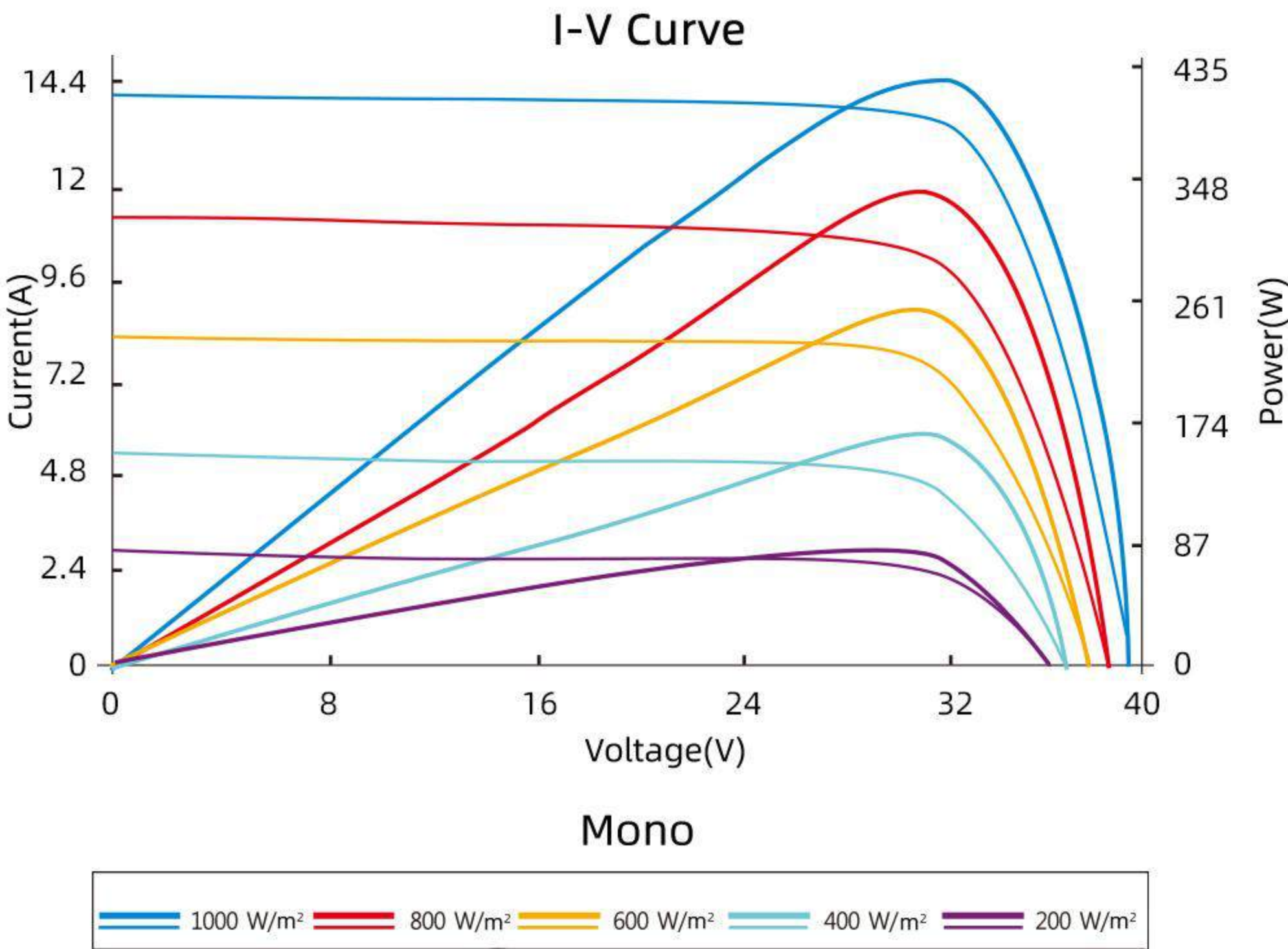
浙江嘉科新能源环保科技有限公司
ZHEJIANG JEC NEW ENERGY TECHNOLOGY CO.,LTD

P/N Type 11BB-16BB
NES108/270-430W
Transparent Backsheet
Half Cell Solar Panel

Engineering Drawing



CETC
中国电子科技集团有限公司
浙江嘉科新能源环保科技有限公司
ZHEJIANG JEC NEW ENERGY TECHNOLOGY CO.,LTD



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

Electrical Characteristics

STC	NES108-7-410M	NES108-7-415M	NES108-7-420M	NES108-7-425M	NES108-7-430M
MAXIMUM POWER(PMAX)	410W	415W	420W	425W	430W
Optimum Operating Voltage(Vmp)	31.81V	32.02V	32.23V	32.44V	32.65V
Optimum Operating Current(Imp)	12.89A	12.96A	13.03A	13.10A	13.17A
Open Circuit Voltage(Voc)	38.10V	38.34V	38.57V	38.81V	39.04V
Short Circuit Current(Isc)	13.82A	13.89A	13.96A	14.03A	14.01A
Module Efficiency	21.00%	21.25%	21.51%	21.76%	22.02%
Operating Module Temperature	-40°C to +85°C				
Maximum System Voltage	1500V DC (IEC)				
Power Tolerance	0~+5W				
STC	Irradiance 1000 W/m², module temperature 25°C, AM=1.5; Best in Class AAA solar simulator (IEC 60904-9) used				

Mechanical Characteristics

Solar Cell	P/N type 11BB/16BB Monocrystalline silicon cells
No. of Cells	108 (6x9x2)
Dimensions	1722mmx1134mmx35/30mm
Weight	21.5kg±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 mm²(0.006 inches²), 300mm/Customized
Connectors	MC4 connectors

Temperature Characteristics

NOCT	45±2°C
Temperature Coefficient of Pmax	-0.36%/°C
Temperature Coefficient of Voc	-0.280%/°C
Temperature Coefficient of Isc	0.050%/°C

Packing Configuration(30mm)

Per Pallet	31Pieces
Per Container (40' HQ)	806Pieces

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



Address: No.587 Taoyuan Road, Jiaxing, Zhejiang, P.R.China
Tel: +86-0573-82651222 Fax: +86-0573-82651223
Web: www.cetcsolarpv.com

CETC 浙江嘉科新能源环保科技有限公司
ZHEJIANG JEC NEW ENERGY TECHNOLOGY CO.,LTD



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

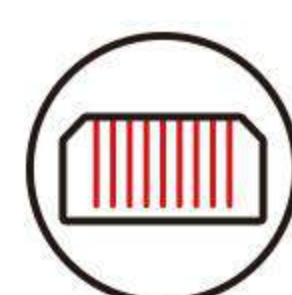
*ISO14001:2015

*ISO45001:2018

TUV、CE、SGS、CQC、ROHS、INMETRO、CGC、IEC



Key Features



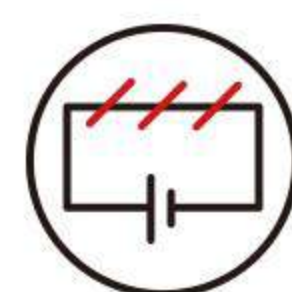
Half Cell

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



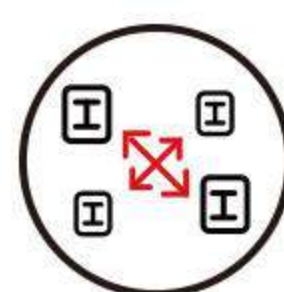
Extended Wind and Snow Load Tests

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



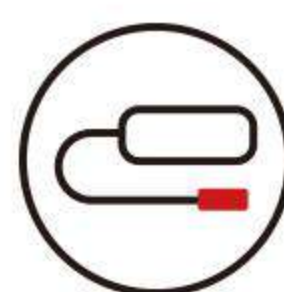
Current Sorting Process

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



Positive Tolerance

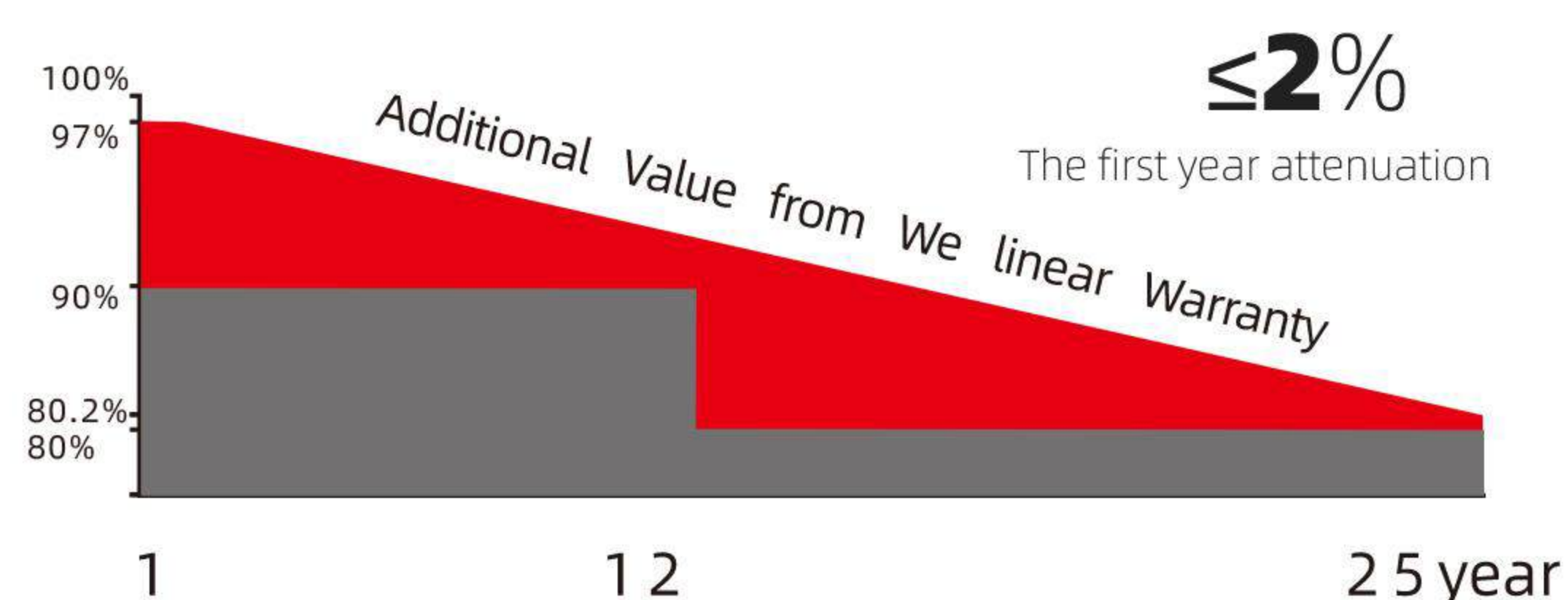
Positive tolerance of up to 0~+5W delivers higher outputs reliability



1500V

Backsheet and junction box supporting 1500V system

Quality Guarantee



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



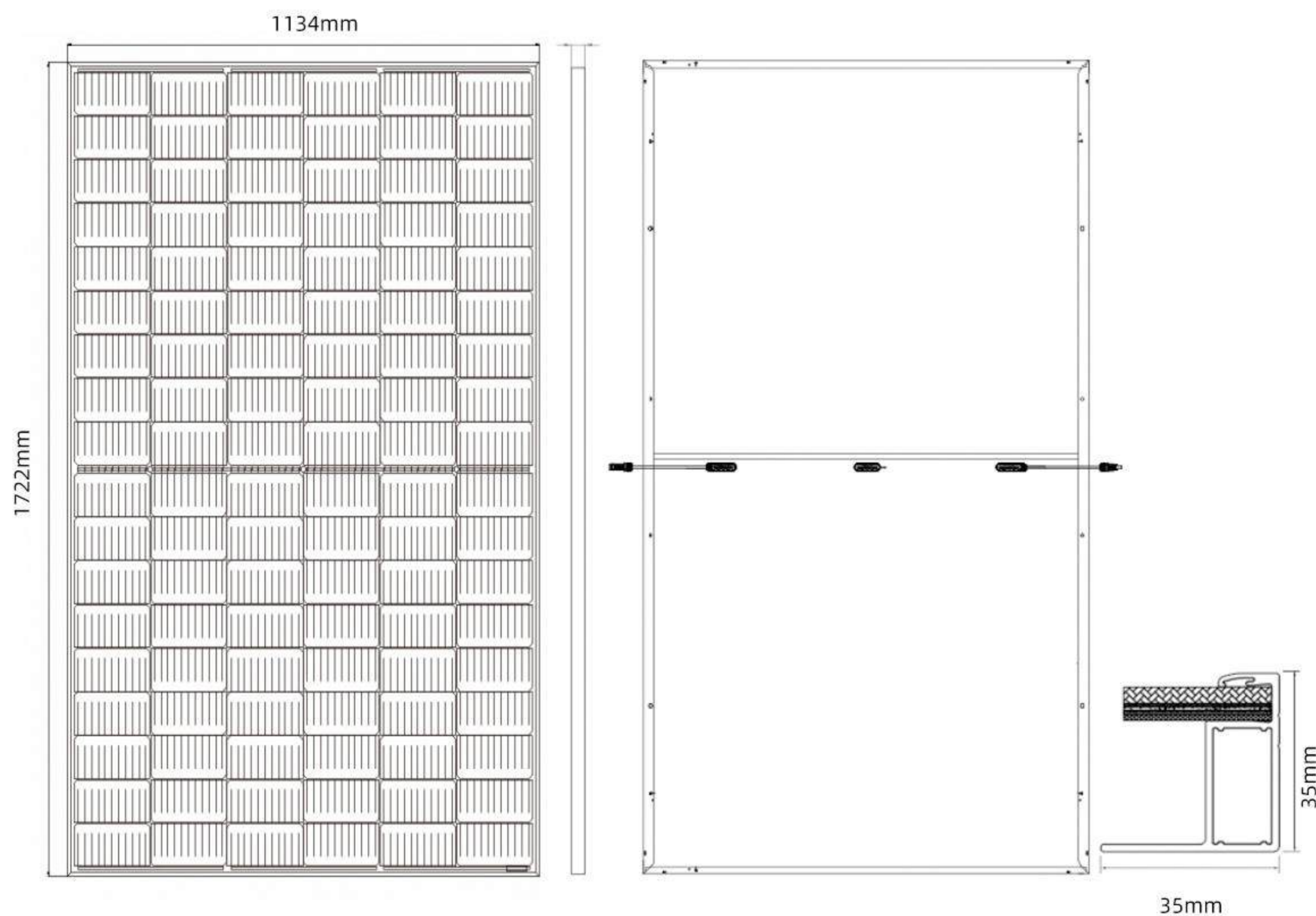
Address: No.587 Taoyuan Road, Jiaxing, Zhejiang, P.R.China
Tel: +86-0573-82651222 Fax: +86-0573-82651223
Web: www.cetcsolarpv.com



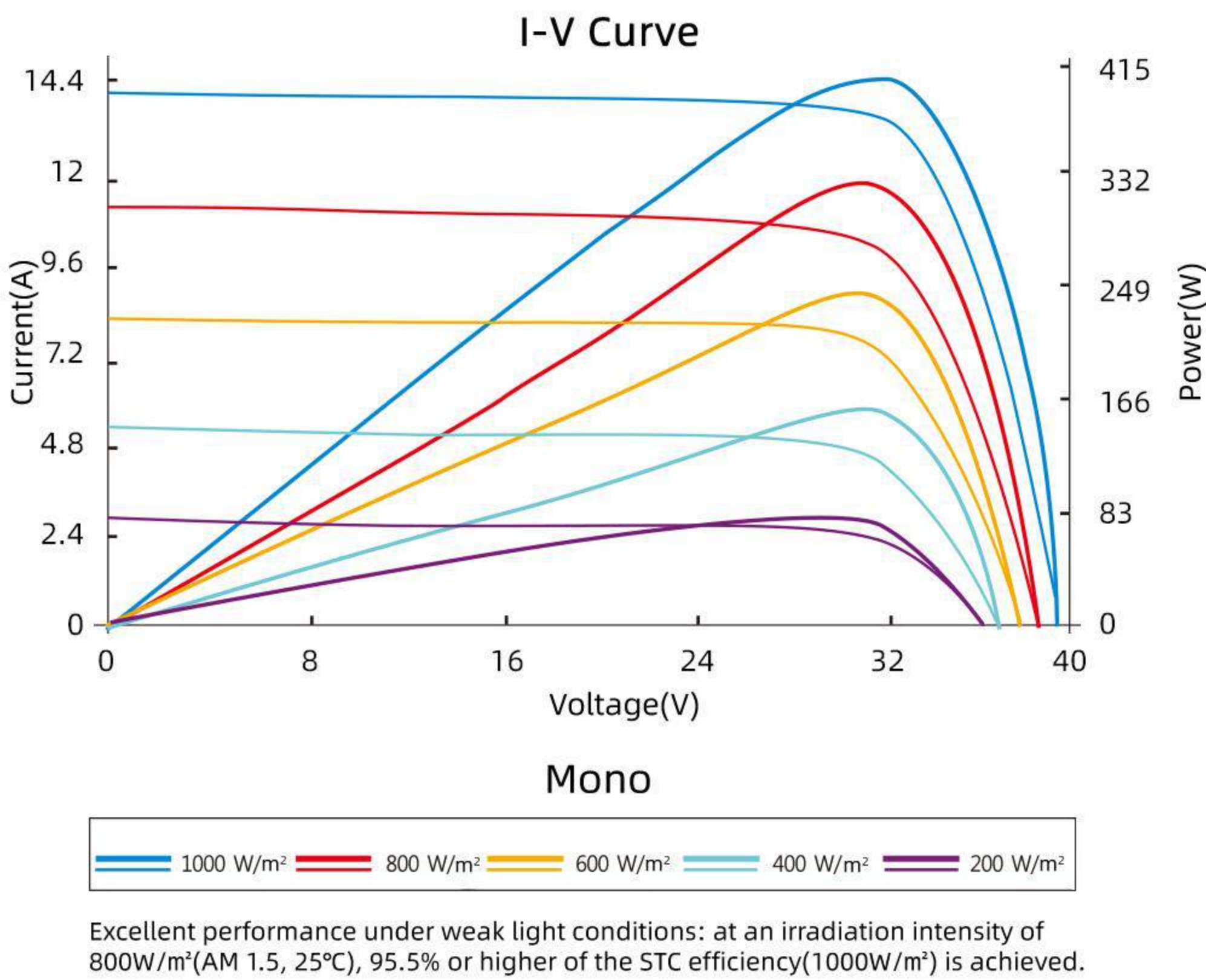
浙江嘉科新能源环保科技有限公司
ZHEJIANG JEC NEW ENERGY TECHNOLOGY CO.,LTD

PREC 182mm
NES108/400-410W
MBB Half Cell Mono Solar Panel

Engineering Drawing



CETC
中国电子科技集团有限公司
浙江嘉科新能源环保科技有限公司
ZHEJIANG JEC NEW ENERGY TECHNOLOGY CO.,LTD



Electrical Characteristics

STC	NES108-7-400M	NES108-7-405M	NES109-7-410M
MAXIMUM POWER(PMAX)	400W	405W	410W
Optimum Operating Voltage(Vmp)	31.01V	31.21V	31.45V
Optimum Operating Current(Imp)	12.90A	12.98A	13.04A
Open Circuit Voltage(Voc)	37.07V	37.23V	37.32V
Short Circuit Current(Isc)	13.79A	13.87A	13.95A
Module Efficiency	20.48%	20.74%	21.00%
Operating Module Temperature	-40°C to +85°C		
Maximum System Voltage	1500V DC (IEC)		
Power Tolerance	0~+5W		
STC	Irradiance 1000 W/m ² , module temperature 25°C, AM=1.5; Best in Class AAA solar simulator (IEC 60904-9) used		

Mechanical Characteristics

Solar Cell	182mm MBB Monocrystalline silicon cells
No. of Cells	108 (6x9x2)
Dimensions	1722mmx1134mmx30/35mm
Weight	21.5kg±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 ² (0.006 inches ²), 300mm/Customized
Connectors	MC4 connectors

Temperature Characteristics

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

Packing Configuration(30/35mm)

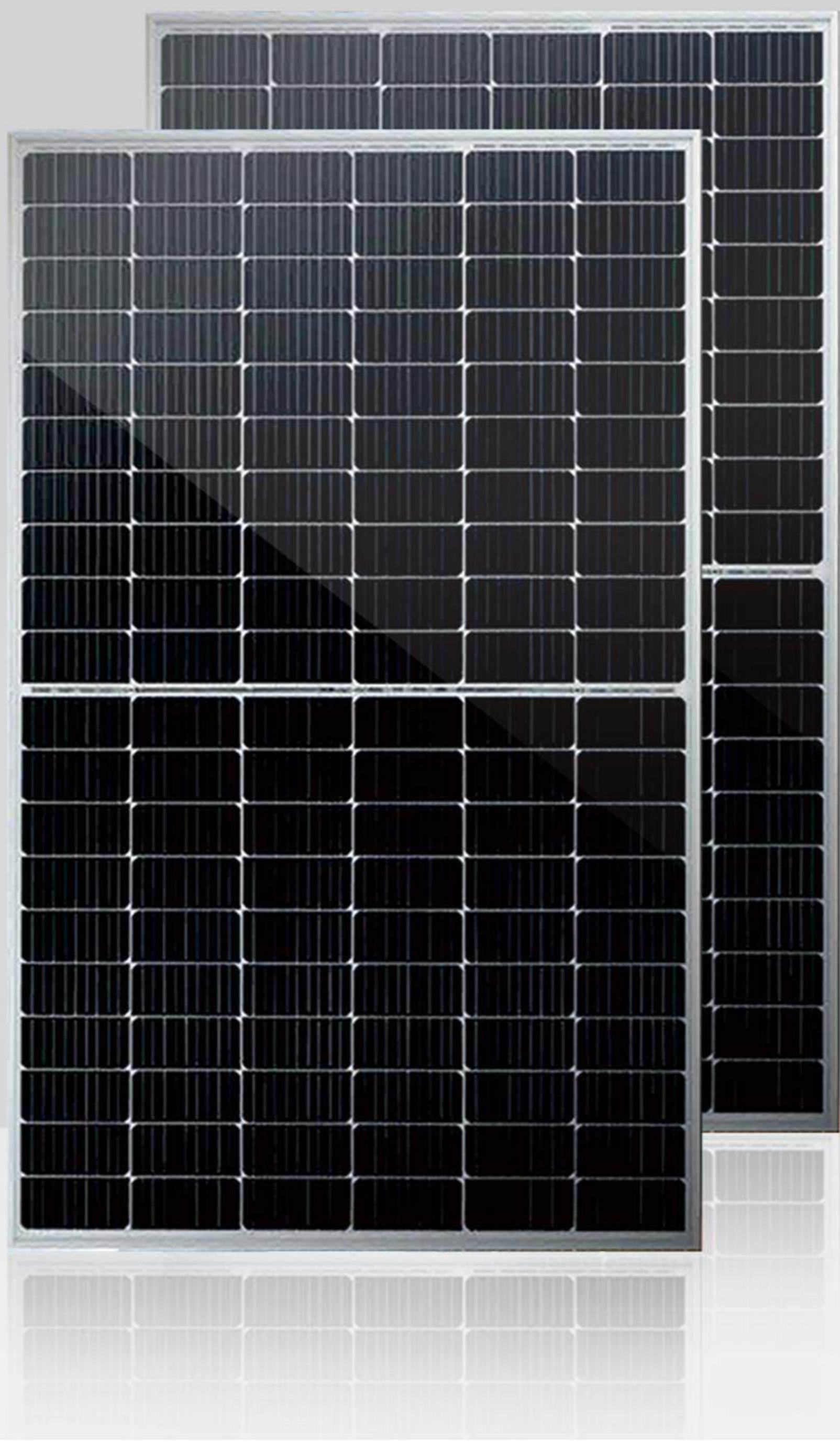
Per Pallet	36/31Pieces
Per Container (40' HQ)	936/806Pieces

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



Address: No.587 Taoyuan Road, Jiaxing, Zhejiang, P.R.China
Tel: +86-0573-82651222 Fax: +86-0573-82651223
Web: www.cetcsolarpv.com

CETC 浙江嘉科新能源环保科技有限公司
ZHEJIANG JEC NEW ENERGY TECHNOLOGY CO.,LTD



CEC

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



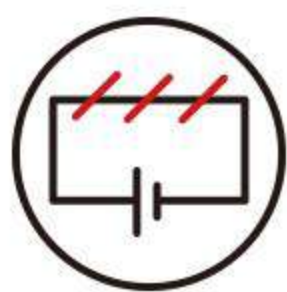
Half Cell

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



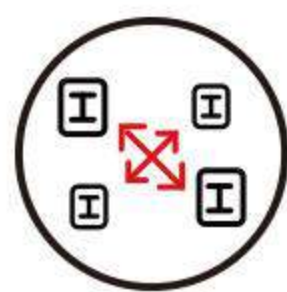
Extended Wind and Snow Load Tests

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



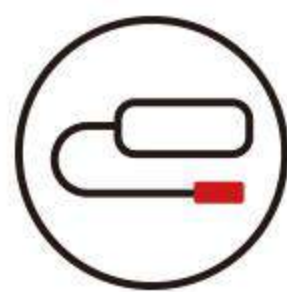
Current Sorting Process

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



Positive Tolerance

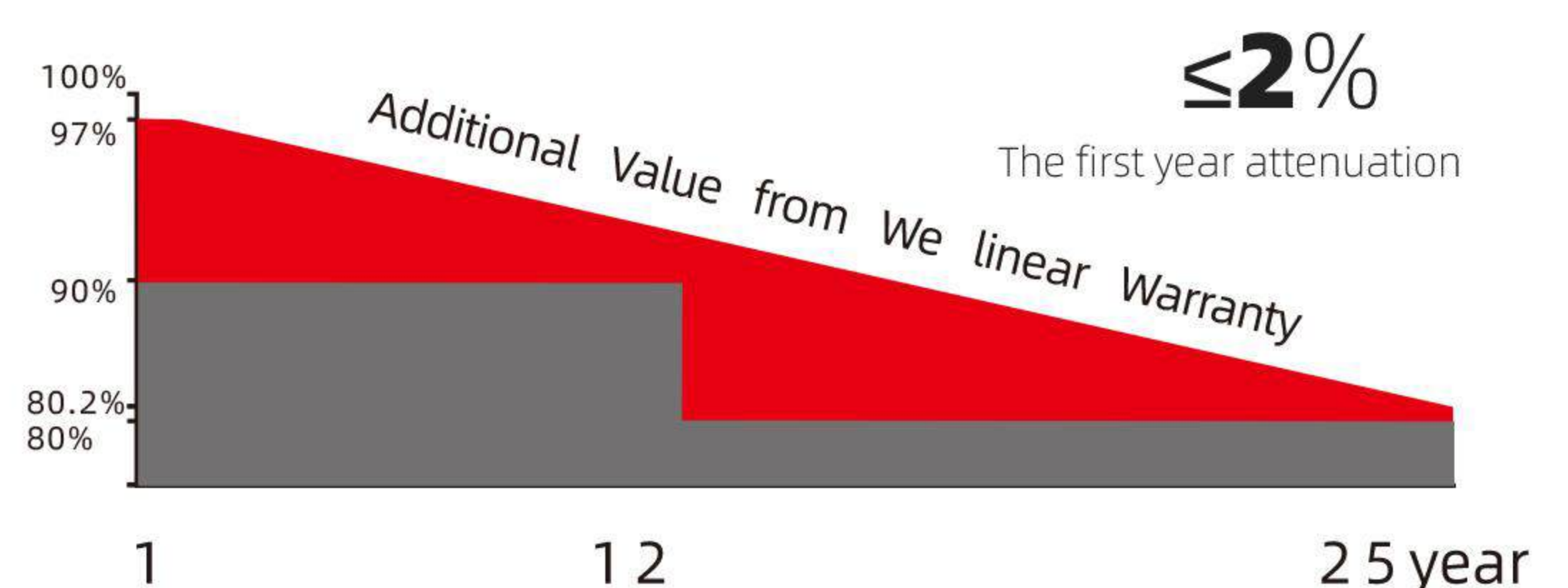
Positive tolerance of up to 0~+5W delivers higher outputs reliability



1500V

Backsheet and junction box supporting 1500V system

Quality Guarantee



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



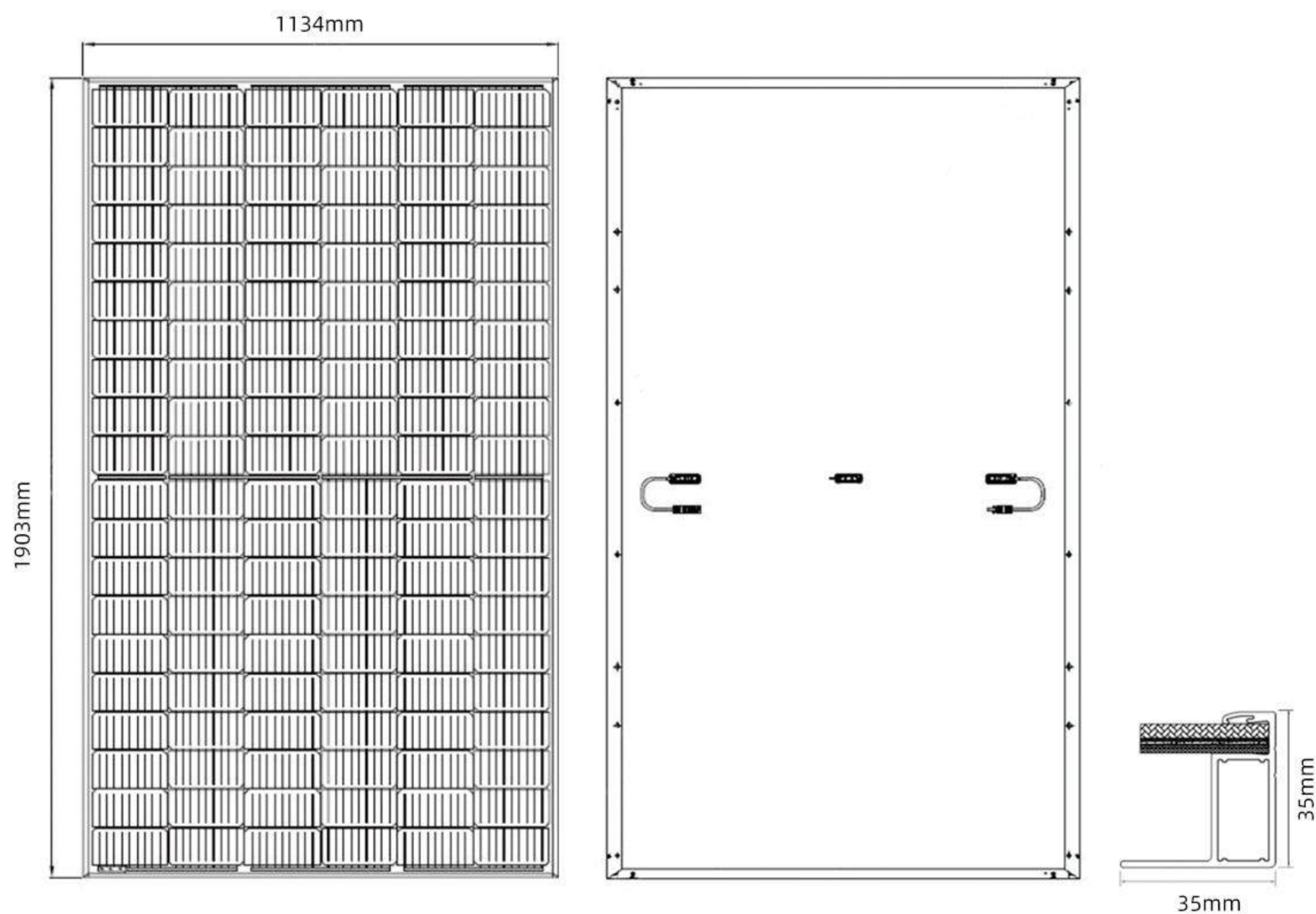
Address: No.587 Taoyuan Road, Jiaxing, Zhejiang, P.R.China
Tel: +86-0573-82651222 Fax: +86-0573-82651223
Web: www.cetcsolarpv.com



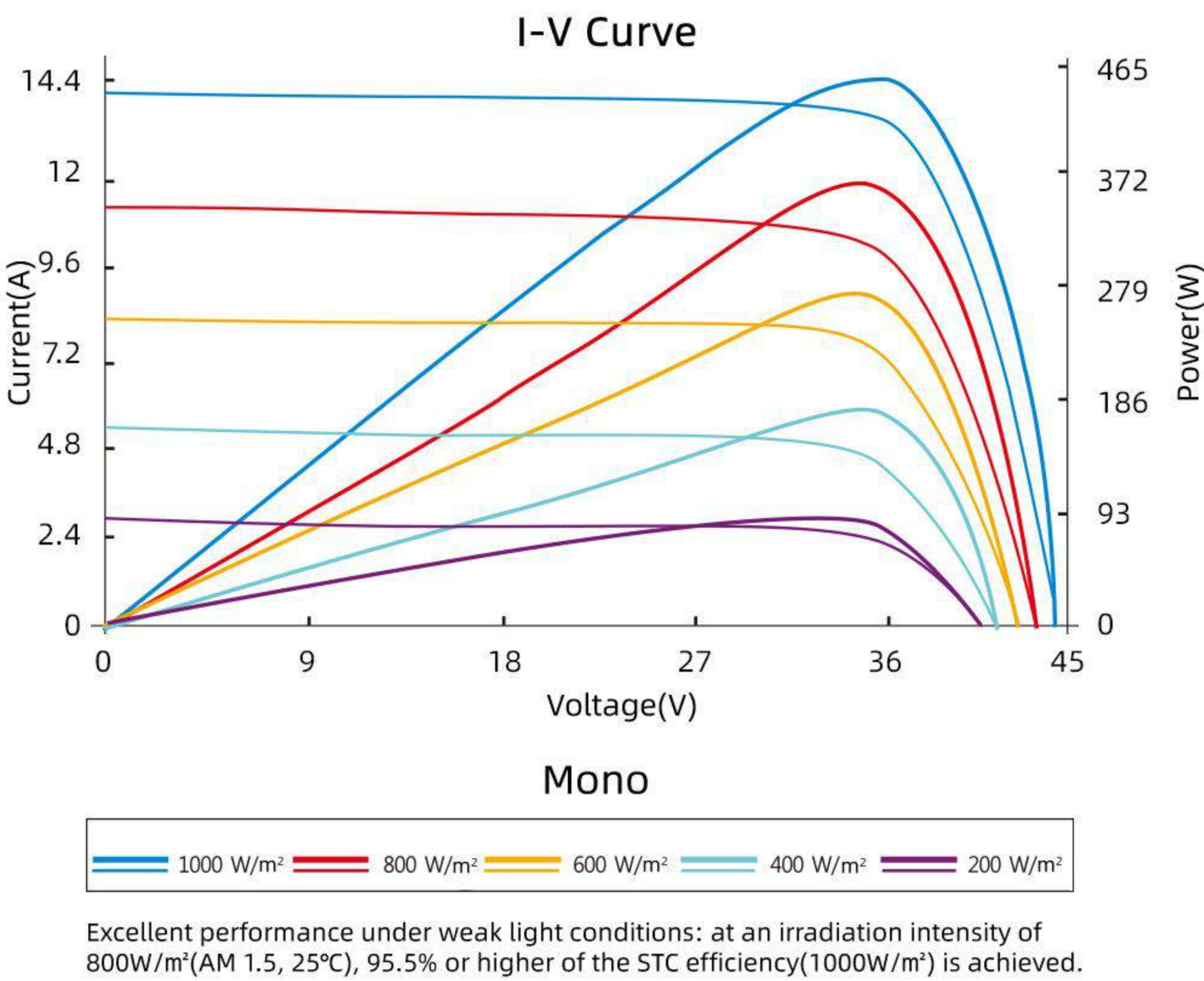
浙江嘉科新能源环保科技有限公司
ZHEJIANG JEC NEW ENERGY TECHNOLOGY CO.,LTD

PREC 182mm
NES120/440-460W
MBB Half Cell Mono Solar Panel

Engineering Drawing



CETC
中国电子科技集团有限公司
浙江嘉科新能源环保科技有限公司
ZHEJIANG JEC NEW ENERGY TECHNOLOGY CO.,LTD



Electrical Characteristics

STC	NES120-7-440M	NES120-7-445M	NES120-7-450M	NES120-7-455M	NES120-7-460M
MAXIMUM POWER(PMAX)	440W	445W	450W	455W	460W
Optimum Operating Voltage(Vmp)	33.72V	33.82V	33.91V	34.06V	34.20V
Optimum Operating Current(Imp)	13.05A	13.16A	13.28A	13.36A	13.46A
Open Circuit Voltage(Voc)	41.02V	41.10V	41.18V	41.18V	41.48V
Short Circuit Current(Isc)	13.73A	13.79A	13.85A	13.93A	14.01A
Module Efficiency	20.39%	20.62%	20.85%	21.08%	21.32%
Operating Module Temperature	-40°C to +85°C				
Maximum System Voltage	1500V DC (IEC)				
Power Tolerance	0~+5W				
STC	Irradiance 1000 W/m², module temperature 25°C, AM=1.5; Best in Class AAA solar simulator (IEC 60904-9) used				

Mechanical Characteristics

Solar Cell	182mm MBB Monocrystalline silicon cells
No. of Cells	120 (6x10x2)
Dimensions	1903mmx1134mmx35mm
Weight	24.3kg±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 mm²(0.006 inches²), 300mm/Customized
Connectors	MC4 connectors

Temperature Characteristics

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

Packing Configuration(35mm)

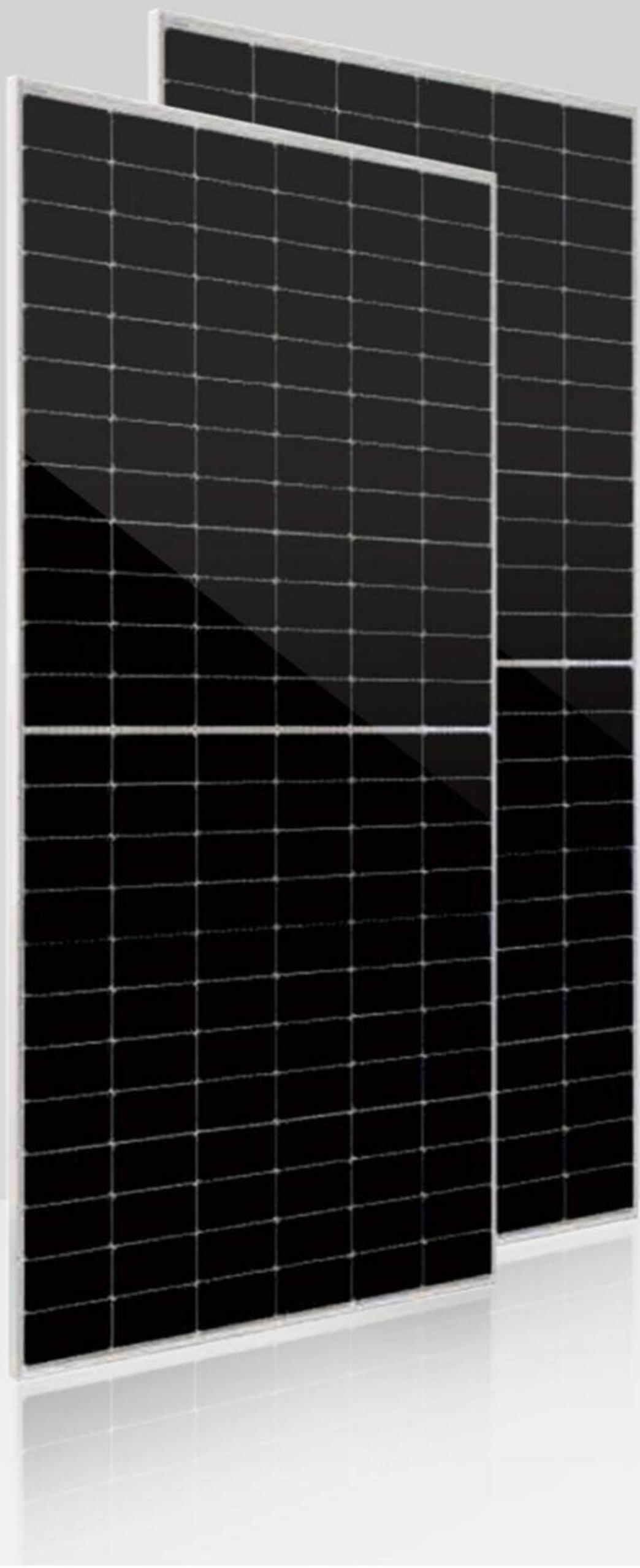
Per Pallet	31Pieces
Per Container (40' HQ)	744Pieces

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



Address: No.587 Taoyuan Road, Jiaxing, Zhejiang, P.R.China
Tel: +86-0573-82651222 Fax: +86-0573-82651223
Web: www.cetcsolarpv.com

CETC 浙江嘉科新能源环保科技有限公司
ZHEJIANG JEC NEW ENERGY TECHNOLOGY CO.,LTD



CETC

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



Key Features



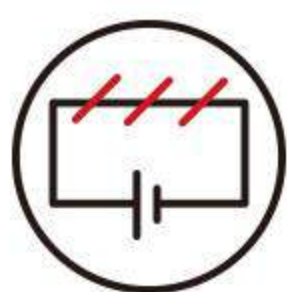
Half Cell

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



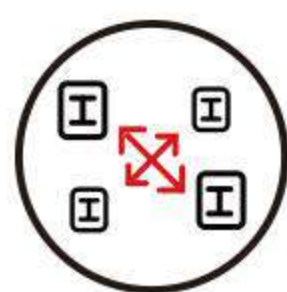
Extended Wind and Snow Load Tests

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



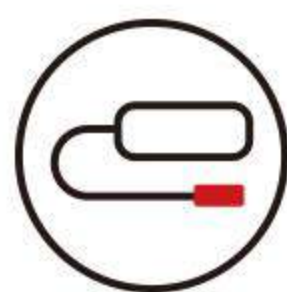
Current Sorting Process

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



Positive Tolerance

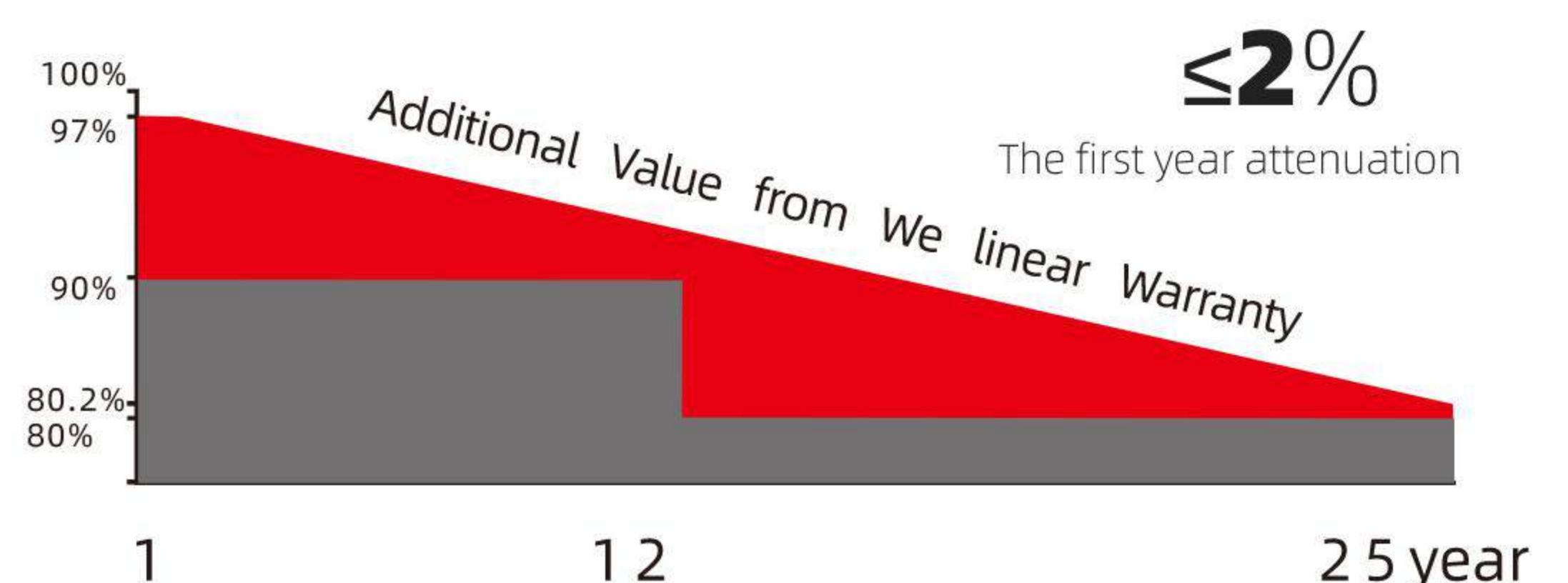
Positive tolerance of up to 0~+5W delivers higher outputs reliability



1500V

Backsheet and junction box supporting 1500V system

Quality Guarantee



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



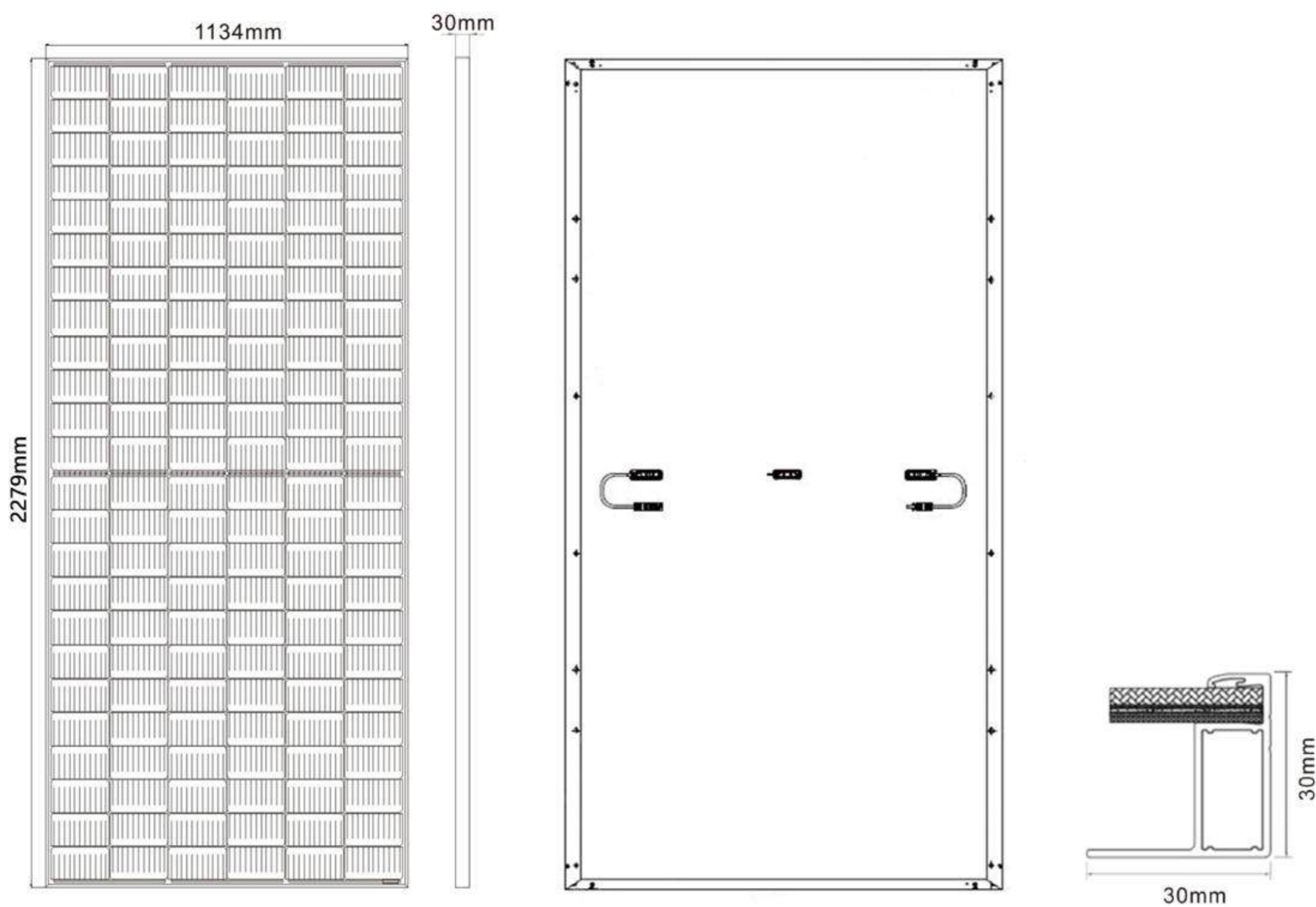
Address: No.587 Taoyuan Road, Jiaxing, Zhejiang, P.R.China
Tel: +86-0573-82651222 Fax: +86-0573-82651223
Web: www.cetcsolarpv.com



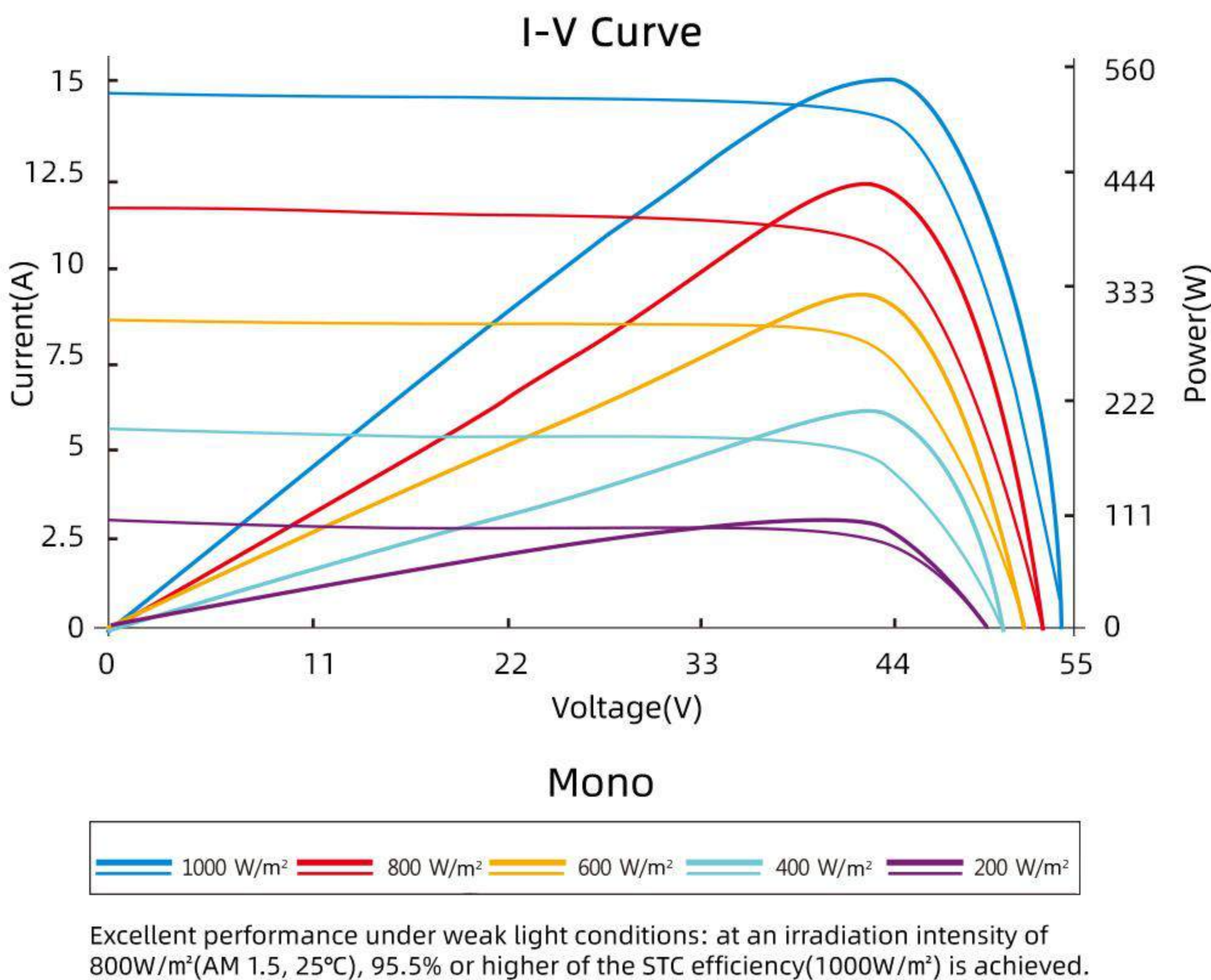
浙江嘉科新能源环保科技有限公司
ZHEJIANG JEC NEW ENERGY TECHNOLOGY CO.,LTD

PREC 182mm
NES144/545-555W
MBB Half Cell Mono Solar Panel

Engineering Drawing



CETC
中国电子科技集团有限公司
浙江嘉科新能源环保科技有限公司
ZHEJIANG JEC NEW ENERGY TECHNOLOGY CO.,LTD



Electrical Characteristics

STC	NES144-7-545M	NES144-7-550M	NES144-7-555M
MAXIMUM POWER(PMAX)	545W	550W	555W
Optimum Operating Voltage(Vmp)	41.80V	41.96V	42.11V
Optimum Operating Current(Imp)	13.04A	13.11A	13.18A
Open Circuit Voltage(Voc)	49.75V	49.90V	50.02V
Short Circuit Current(Isc)	13.93A	14.00A	14.07A
Module Efficiency	21.09%	21.28%	21.48%
Operating Module Temperature	-40°C to +85°C		
Maximum System Voltage	1500V DC (IEC)		
Power Tolerance	0~+5W		
STC	Irradiance 1000 W/m², module temperature 25°C, AM=1.5; Best in Class AAA solar simulator (IEC 60904-9) used		

Mechanical Characteristics

Solar Cell	182mm MBB Monocrystalline silicon cells
No. of Cells	144 (6x12x2)
Dimensions	2279±2mmx1134±2mmx30/35±1mm
Weight	28.6kg±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 mm²(0.006 inches²), 300mm/Customized
Connectors	MC4 connectors

Temperature Characteristics

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

Packing Configuration(30/35mm)

Per Pallet	36/31Pieces
Per Container (20' GP)	250Pieces
Per Container (40' HQ)	720/620Pieces

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



Address: No.587 Taoyuan Road, Jiaxing, Zhejiang, P.R.China
Tel: +86-0573-82651222 Fax: +86-0573-82651223
Web: www.cetcsolarpv.com

CETC 浙江嘉科新能源环保科技有限公司
ZHEJIANG JEC NEW ENERGY TECHNOLOGY CO.,LTD

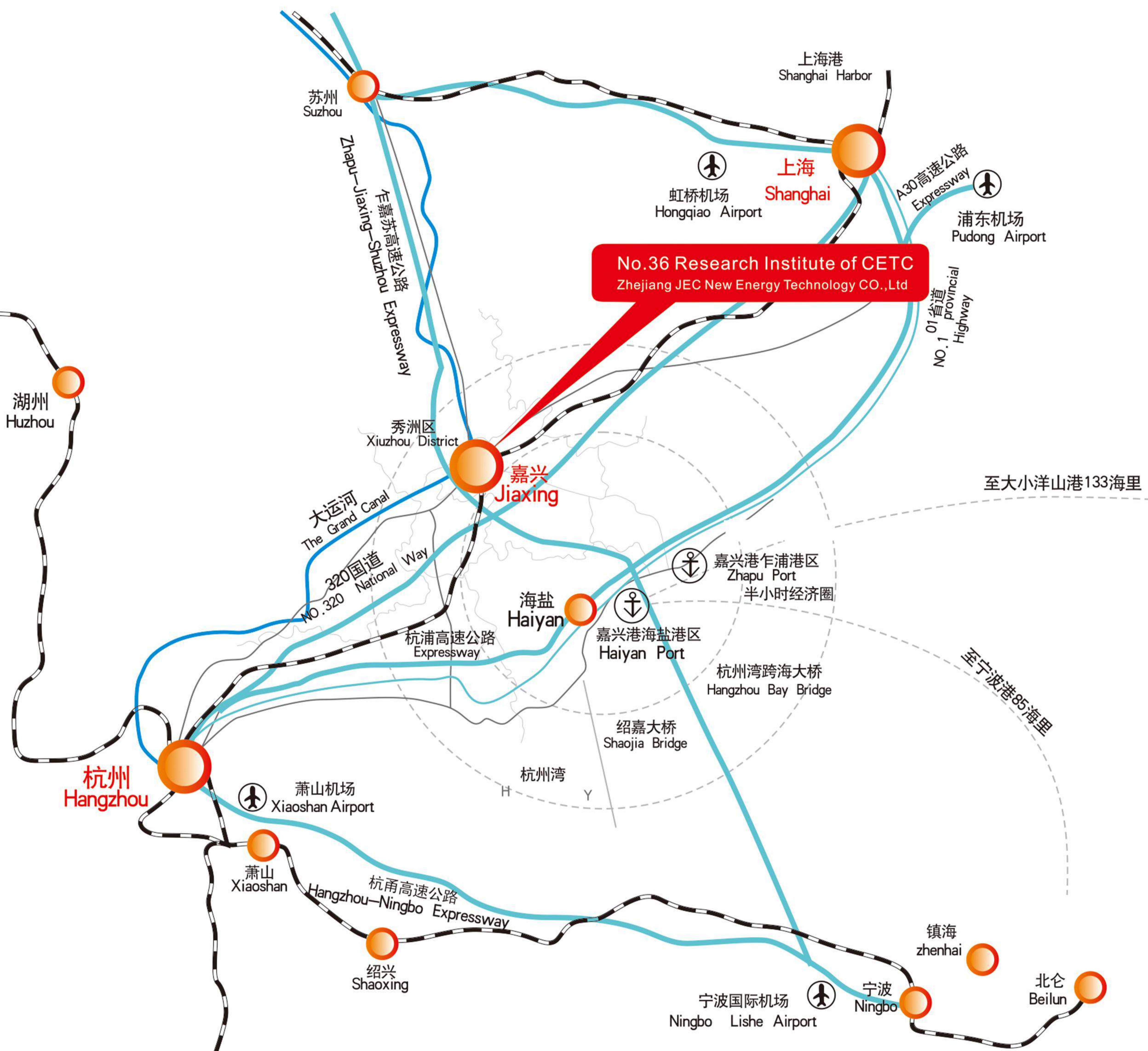
PERC 182mm
NES/10-410W
Small Size Type
Mono Solar Panel

Module Type	Pm(W)	Module Size (mm)	Vm(V)	Im(A)	Voc(V)	Isc(A)	Weight(KG)	Pcs/ctn	Pcs/pallet	Pcs/40'HQ
NES010-12M6	10	330×210×17	19.4	0.52	23.2	0.56	0.7	20	1620	32400
NES020-12M6	20	330×400×25	19	1.06	22.8	1.14	1.4	10	660	14520
NES030-12M6	30	465×400×25	19	1.58	22.8	1.72	2	10	660	10560
NES040-12M6	40	620×400×25	19	2.11	22.8	2.29	2.6	10	440	7920
NES050-12M10	50	705×400×25	20.2	2.48	24	2.69	3	10	440	7040
NES060-12M10	60	830×400×25	20.2	2.98	24	3.23	3.5	10	440	6160
NES070-12M10	70	655×580×30	20.2	3.47	24	3.77	4	5	240	4400
NES080-12M10	80	740×580×30	20.2	3.97	24	4.3	4.5	5	240	3920
NES090-12M10	90	825×580×30	20.2	4.46	24	4.84	5.1	5	240	3640
NES100-12M10	100	905×580×30	20.2	4.96	24	5.38	5.6	5	240	3280
NES110-12M10	110	990×580×30	20.2	5.45	24	5.92	6.1	5	120	3020
NES120-12M10	120	1075×580×30	20.2	5.95	24	6.46	6.6	5	120	2840
NES130-12M10	130	885×765×30	20.2	6.44	24	7	7.2	72	216	2736
NES140-12M10	140	945×765×30	20.2	6.94	24	7.53	7.7	72	216	2592
NES150-12M10	150	1010×765×30	20.2	7.43	24	8.07	8.2	36	108	2376
NES160-12M10	160	1075×765×30	20.2	7.93	24	8.61	8.6	36	108	2160
NES170-12M10	170	1135×765×30	20.2	8.42	24	9.15	9	36	108	2160
NES180-12M10	180	1200×765×30	20.2	8.92	24	9.69	9.5	36	108	1944
NES190-12M10	190	1265×765×30	20.2	9.41	24	10.22	10.1	36	108	1944
NES200-24M10	200	1325×765×30	20.2	9.91	24	10.76	10.5	36	108	1824
NES200-24M10	200	1345×765×30	40.5	4.94	48	5.37	10.7	36	108	1812
NES210-24M10	210	1345×765×30	41.6	5.05	48.8	5.49	10.7	36	108	1812
NES220-24M10	220	1470×765×30	40.5	5.43	48	5.9	11.7	36	108	1620
NES230-24M10	230	1470×765×30	41.6	5.53	48.8	6.01	11.7	36	108	1620
NES240-24M10	240	1595×765×30	40.5	5.93	48	6.44	12.7	36	108	1512
NES250-24M10	250	1595×765×30	41.6	6.01	48.8	6.53	12.7	36	108	1512
NES260-24M10	260	1720×765×30	40.5	6.42	48	6.98	13.7	36	108	1404
NES270-24M10	270	1720×765×30	41.5	6.51	48.7	7.07	13.7	36	108	1404
NES280-24M10	280	1250×1132×30	40.5	6.91	48	7.51	14.7	36	72	1296
NES290-24M10	290	1250×1132×30	41.4	7.01	48.6	7.61	14.7	36	72	1296
NES300-24M10	300	1335×1132×30	40.5	7.41	48	8.05	15.7	36	72	1212
NES310-24M10	310	1335×1132×30	41.4	7.49	48.6	8.14	15.7	36	72	1212
NES320-24M10	320	1420X1132X30	40.5	7.9	48	8.59	16.7	36	72	1152
NES330-24M10	330	1420X1132X30	41.4	7.98	48.6	8.66	16.7	36	72	1152
NES340-24M10	340	1500×1132×30	40.5	8.4	48	9.13	17.7	36	72	1080
NES350-24M10	350	1500×1132×30	41.4	8.46	48.6	9.19	17.7	36	72	1080
NES360-24M10	360	1585×1132×30	40.5	8.89	48	9.66	18.7	36	72	1008
NES370-24M10	370	1585×1132×30	41.4	8.94	48.6	9.71	18.7	36	72	1008
NES380-24M10	380	1670×1132×30	40.5	9.38	48	10.2	19.7	36	72	1008
NES390-24M10	390	1670×1132×30	41.3	9.45	48.5	10.26	19.7	36	72	1008
NES400-24M10	400	1755×1132×30	40.5	9.88	48	10.74	20.7	36	72	936
NES410-24M10	410	1755×1132×30	41.3	9.93	48.5	10.79	20.7	36	72	936

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



Address: No.587 Taoyuan Road, Jiaxing, Zhejiang, P.R.China
Tel: +86-0573-82651222 Fax: +86-0573-82651223
www.cetcsolarpv.com



Zhejiang JEC New Energy Technology Co., LTD

Address: No.587 Taoyuan Road, Jiaxing, Zhejiang, P.R.China

Tel: +86-0573-82651222 Fax: +86-0573-82651223

Web: www.cetcsolarpv.com



Wechat Official Accounts