

Registration No.: 07620Q6633R0M



# QUALITY MANAGEMENT SYSTEM CERTIFICATE

The certificate information is available on the CNCA of the official website ([www.cnca.gov.cn](http://www.cnca.gov.cn))

This is to certify that the quality management system of

**ZheJiang Isola New Energy Co., Ltd.**

Uniform Code of Social Credit: 91330203MA28Y4ND0G

Reg. Add: Xiufeng Village, Gaoqiao Town, Haishu District, Ningbo City

Pro Add: No. 43, Lixie Village, Bengxi Town, Yinzhou District, Ningbo City, Zhejiang Province

Which is in conformity with

**GB/T19001-2016/ISO9001:2015**

This certificate covers the following scope of  
production and sales of solar cell modules, sales of solar cells

This certificate will not remain valid unless and until the certified customers accepts at least once surveillance audit annually within the validity period of the certificate. Please login into [www.zrxbj.com](http://www.zrxbj.com) for this certificate's validity status.

Issue Date: 12. 11. 2020

Expiration Date: 12. 10. 2023

Beijing ZhongRunXing Certification Co., Ltd.

No. 80 Office Building No. 12 Tu Cheng Road East,  
He Ping Street Chaoyang District, Beijing

Issued by:

*X.R Zhang*



管理体系  
MANAGEMENT SYSTEM  
CNAS C076-M



证书查询





**China National Accreditation Service for Conformity Assessment**  
**LABORATORY ACCREDITATION CERTIFICATE**  
(Registration No. CNAS L11165 )

**Tuv Nord PV Science and Technology Co., Ltd.**

*(Legal Entity: Tuv Nord PV Science and Technology Co., Ltd.)*

2/F., Building 4, No.880, Ziyue Road, Minhang District, Shanghai, China

***is accredited in accordance with ISO/IEC 17025: 2005 General Requirements for the Competence of Testing and Calibration Laboratories(CNAS-CL01 Accreditation Criteria for the Competence of Testing and Calibration Laboratories) for the competence to undertake the service described in the schedule attached to this certificate.***

***The scope of accreditation is detailed in the attached schedule bearing the same registration number as above. The schedule forms an integral part of this certificate.***


**Effective Date: 2018-07-09**

**Expiry Date: 2024-07-08**

**Signed on behalf of China National Accreditation Service for Conformity Assessment**

China National Accreditation Service for Conformity Assessment(CNAS) is authorized by Certification and Accreditation Administration of the People' s Republic of China (CNCA) to operate the national accreditation schemes for conformity assessment. CNAS is a signatory of the International Laboratory Accreditation Cooperation Mutual Recognition Arrangement (ILAC MRA) and the Asia Pacific Laboratory Accreditation Cooperation Mutual Recognition Arrangement (APLAC MRA).  
**The validity of the certificate can be checked on CNAS website at <http://www.cnas.org.cn/english/findanaccreditedbody/index.shtml>**

**CDF (Constructional Data Form) for Electrical Products**

Applicant .....	<b>Zhejiang Isola New Energy Co., Ltd.</b> Xiufeng Village, Gaoqiao town, Haishu District Ningbo City, Zhejiang Province, 315121, P.R. China
Manufacturer.....	<b>Ningbo Osda Solar Co., Ltd.</b> 1-1, No.136, Haichuan Road, Jiangbei Area Ningbo City, Zhejiang Province, 315100, P.R.China
Product.....	Crystalline Silicon Terrestrial Photovoltaic (PV) Modules
Standard(s) .....	IEC / EN 61215-1:2016; IEC / EN 61215-1-1:2016; IEC 61215-2:2016 / EN 61215-2:2017 + AC:2017 + AC:2018; IEC 61730-1:2016 / EN IEC 61730-1:2018 + AC:2018; IEC 61730-2:2016 / EN IEC 61730-2:2018 + AC:2018.
Trade mark.....	
Module type(s) .....	<b>PV Modules with 7" Half-cut Mono-crystalline Silicon Solar Cells:</b> 144 cells: YHxxxW-36MH (xxx=525-550, in increment of 5) 132 cells: YHxxxW-33MH (xxx=480-505, in increment of 5) 120 cells: YHxxxW-30MH (xxx=440-460, in increment of 5) 108 cells: YHxxxW-27MH (xxx=395-410, in increment of 5) <b>PV Modules with 6" Half-cut Mono-crystalline Silicon Solar Cells:</b> 144 cells: YHxxxW-36MH (xxx=430-460, in increment of 5) 132 cells: YHxxxW-33MH (xxx=395-420, in increment of 5) 120 cells: YHxxxW-30MH (xxx=360-380, in increment of 5)

**Electrical ratings:**

**PV Modules with 7" Half-cut Mono-crystalline Silicon Solar Cells:**

Module type .....	144 cells: YHxxxW-36MH (xxx=525-550, in increment of 5) For 7" mono cell 1		
Dimensions [mm] / l x w x h .....	2279 x 1134 x 35		
Rated Pmpp [W] .....	525; 530; 535; 540; 545; 550	Tolerance of rated Pmpp [%].....:	±3
Rated Voc [V].....	49.10; 49.30; 49.50; 49.70; 49.90; 50.10	Tolerance of rated Voc [%].....:	±3
Rated Isc [A] .....	13.56; 13.65; 13.74; 13.83; 13.92; 14.01	Tolerance of rated Isc [%].....:	±3

Confirmation of the applicant  
Ningbo, 03/02/2023 (Place and date)

Confirmation of TÜV NORD CERT  
Shanghai, \_\_\_\_\_ (Place and date)

\_\_\_\_\_  
(Applicant's legally authorized signature and stamp)

\_\_\_\_\_  
(Signature of authorized TÜV NORD CERT engineer)

Maximum system voltage [V]..... :	1500	Safety class acc. to IEC 61140.....:	Class II
Min-creepage distance [mm] ..... :	13	Fuse rating [A] .....	20
Design load (positive) [Pa] ..... :	1600 (for 4 clamps) 3600 (for 6 clamps)	Safety factor (positive).....:	1.5
Design load (negative) [Pa] ..... :	1600	Safety factor (negative) .....	1.5

Module type .....	132 cells: YHxxxW-33MH (xxx=480-505, in increment of 5) For 7" mono cell 1		
Dimensions [mm] / l x w x h..... :	2094 x 1134 x 35		
Rated Pmpp [W] .....	480; 485; 490; 495; 500; 505	Tolerance of rated Pmpp [%].....:	±3
Rated Voc [V]..... :	44.94; 45.14; 45.34; 45.54; 45.74; 45.94	Tolerance of rated Voc [%].....:	±3
Rated Isc [A] .....	13.46; 13.55; 13.64; 13.73; 13.82; 13.91	Tolerance of rated Isc [%].....:	±3
Maximum system voltage [V]..... :	1500	Safety class acc. to IEC 61140.....:	Class II
Min-creepage distance [mm] ..... :	13	Fuse rating [A] .....	20
Design load (positive) [Pa] ..... :	1600 (for 4 clamps) 3600 (for 6 clamps)	Safety factor (positive).....:	1.5
Design load (negative) [Pa] ..... :	1600	Safety factor (negative) .....	1.5

Module type .....	120 cells: YHxxxW-30MH (xxx=440-460, in increment of 5) For 7" mono cell 1		
Dimensions [mm] / l x w x h..... :	1909 x 1134 x 35		
Rated Pmpp [W] .....	440; 445; 450; 455; 460	Tolerance of rated Pmpp [%].....:	±3
Rated Voc [V]..... :	41.00; 41.20; 41.40; 41.60; 41.80	Tolerance of rated Voc [%].....:	±3
Rated Isc [A] .....	13.56; 13.65; 13.74; 13.83; 13.93	Tolerance of rated Isc [%].....:	±3
Maximum system voltage [V]..... :	1500	Safety class acc. to IEC 61140.....:	Class II
Min-creepage distance [mm] ..... :	13	Fuse rating [A] .....	20
Design load (positive) [Pa] ..... :	1600 (for 4 clamps) 3600 (for 6 clamps)	Safety factor (positive).....:	1.5
Design load (negative) [Pa] ..... :	1600	Safety factor (negative) .....	1.5

Module type .....	108 cells: YHxxxW-27MH (xxx=395-410, in increment of 5) For 7" mono cell 1		
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Dimensions [mm] / l x w x h..... :	1724x 1134 x 35		
Rated Pmpp [W] .....	395; 400; 405; 410	Tolerance of rated Pmpp [%].....:	±3
Rated Voc [V]..... :	36.85; 37.05; 37.25; 37.45	Tolerance of rated Voc [%].....:	±3
Rated Isc [A] .....	13.58; 13.67; 13.76; 13.85	Tolerance of rated Isc [%].....:	±3
Maximum system voltage [V]..... :	1500	Safety class acc. to IEC 61140.....:	Class II
Min-creepage distance [mm] .....	13	Fuse rating [A] .....	20
Design load (positive) [Pa] .....	1600 (for 4 clamps) 3600 (for 6 clamps)	Safety factor (positive) .....	1.5
Design load (negative) [Pa] .....	1600	Safety factor (negative) .....	1.5

**PV Modules with 6" Half-cut Mono-crystalline Silicon Solar Cells:**

Module type .....	144 cells: YHxxxW-36MH (xxx=430-460, in increment of 5) For 6" mono cell 1		
Dimensions [mm] / l x w x h..... :	2094 x 1038 x 35		
Rated Pmpp [W] .....	430; 435; 440; 445; 450; 455; 460	Tolerance of rated Pmpp [%].....:	±3
Rated Voc [V]..... :	48.50; 48.70; 48.90; 49.10; 49.30; 49.50; 49.70	Tolerance of rated Voc [%].....:	±3
Rated Isc [A] .....	11.31; 11.39; 11.46; 11.53; 11.60; 11.66; 11.72	Tolerance of rated Isc [%].....:	±3
Maximum system voltage [V]..... :	1500	Safety class acc. to IEC 61140.....:	Class II
Min-creepage distance [mm] .....	13	Fuse rating [A] .....	20
Design load (positive) [Pa] .....	1600 (for 4 clamps) 3600 (for 6 clamps)	Safety factor (positive) .....	1.5
Design load (negative) [Pa] .....	1600	Safety factor (negative) .....	1.5

Module type .....	132 cells: YHxxxW-33MH (xxx=395-420, in increment of 5) For 6" mono cell 1		
Dimensions [mm] / l x w x h..... :	1925 x 1038 x 35		
Rated Pmpp [W] .....	395; 400; 405; 410; 415; 420	Tolerance of rated Pmpp [%].....:	±3
Rated Voc [V]..... :	44.50; 44.70; 44.90; 45.10; 45.30; 45.50;	Tolerance of rated Voc [%].....:	±3
Rated Isc [A] .....	11.36; 11.42; 11.48; 11.54; 11.60; 11.66	Tolerance of rated Isc [%].....:	±3

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Maximum system voltage [V]..... :	1500	Safety class acc. to IEC 61140.....:	Class II
Min-creepage distance [mm] ..... :	13	Fuse rating [A] .....	20
Design load (positive) [Pa] ..... :	1600 (for 4 clamps) 3600 (for 6 clamps)	Safety factor (positive).....:	1.5
Design load (negative) [Pa] ..... :	1600	Safety factor (negative) .....	1.5

Module type .....	120 cells: YHxxxW-30MH (xxx=360-380, in increment of 5) For 6" mono cell 1		
Dimensions [mm] / l x w x h .....	1755 x 1038 x 35		
Rated Pmpp [W] .....	360; 365; 370; 375; 380	Tolerance of rated Pmpp [%].....:	±3
Rated Voc [V]..... :	40.50; 40.80; 40.90; 41.10; 41.30	Tolerance of rated Voc [%].....:	±3
Rated Isc [A] .....	11.35; 11.43; 11.52; 11.60; 11.69	Tolerance of rated Isc [%].....:	±3
Maximum system voltage [V]..... :	1500	Safety class acc. to IEC 61140.....:	Class II
Min-creepage distance [mm] ..... :	13	Fuse rating [A] .....	20
Design load (positive) [Pa] ..... :	1600 (for 4 clamps) 3600 (for 6 clamps)	Safety factor (positive).....:	1.5
Design load (negative) [Pa] ..... :	1600	Safety factor (negative) .....	1.5








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**Copy of marking plate:**

		
<b>Type: YHxxW-36MH</b>		
Rated Maximum Power (Pmax)		XXXW
Tolerance (Tol)		±3%
Voltage at Pmax (Vmp)		XXXV
Current at Pmax (Imp)		XXXA
Open-Circuit Voltage (Voc)		±3%
Short-Circuit Current (Isc)		±3%
Nominal Operating Cell Temperature (NOCT)		45±2°C
Maximum System Voltage		1500VDC
Maximum Series Fuse Rating		25A
Operating Temperature		-40°C ~ +85°C
Application Class		Class A
Protection Class		
Cell Technology		Mono-si
Weight (kg)		XXX
Dimensions (mm)		XXX x XXX x XXX
All technical data at standard test condition AM1.5 E=1000W/m <sup>2</sup> T=25°C		
	<b style="color: red;">WARNING! ELECTRICAL HAZARD</b> This unit produces electrical power when exposed to light. Cover glass before opening terminal junction box.	
		
Zhejiang Isola New Energy CO.,LTD Xiufeng village, Gaoqiao town, Haishu area, Ningbo City Zhejiang Province, P.R.China		<b>Made in China</b>

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**List of critical materials and components:**

Object	Manufacturer	Type	Technical Data	Remark
<b>Components</b>				
7" Mono cell 1	JA SOLAR Technology Co., Ltd.	JAC MEBP-B	Dimension (w x l) = 182mm x 91mm Cell area = 16507mm <sup>2</sup> Thickness = 180±18µm 11 busbars	Tested with PV modules
6" Mono cell 1	JA SOLAR Technology Co., Ltd.	JAC MABP-9	Dimension (w x l) = 166mm x 83mm Cell area = 13708mm <sup>2</sup> Thickness = 180±18µm 9 busbars	Tested with PV modules
Front cover	Xinyi PV products(Anhui) Holdings LTD.	AR coating tempered glass	Thickness = 3.2mm	Tested with PV modules
Rear cover	Cybrid Technologies Inc.	Cynagard 205A(R)	PVDF / Polyester / PET / Primer coating 20µm / 8µm / 288µm / 4µm 320µm in total CTI = 600 (V) Color: White	Tested with PV modules CTI report no. 50176745 001 issued by TÜV Rheinland
Encapsulation material	Shanghai Tianyang Hot Melt Adhesives Co.,Ltd.	JCC-105P-T (between front cover and cell) / JCC-105P (between cell and rear cover)	Thickness = 0.45 - 0.55 mm CTI = 600 (V) Color: Transparent	Tested with PV modules CTI report no. 2017DAC500055 issued by CPVT
Frame parts	Jiangyin South New Energy Technology Co., Ltd.	6063-T5	Thickness = 35 mm Color: silvery Assembled by corner brace	Tested with PV modules
Adhesive (frame)	Shanghai Huitian New Chemical Co., Ltd.	HT906Z	Color: white	Tested with PV modules
Internal wiring (for interconnection cell-to-cell bus bar)	Greateen New Energy Technology Co., Ltd.	Copper belt with tin plated	Φ = 0.32mm Sn60%Pb40%	Tested with PV modules
Internal wiring (for inter-string connection)	Greateen New Energy Technology Co., Ltd.	Copper belt with tin plated	6.0 x 0.35 mm Sn60%Pb40%	Tested with PV modules
Soldering material	N/A	N/A	N/A	N/A
Fluxing agent	Singapore Asahi Chemical and Solder Industries Pte Ltd	SF105	-	Tested with PV modules
Fixing tape	Mctape electrical materials(Shanghai)Co., Ltd.	MK-8	Width = 8mm	Tested with PV modules
Insulation tape	Suzhou Usg Solar Technology Service Co., Ltd.	USG	Thickness = 0.3 mm	Tested with PV modules

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Object	Manufacturer	Type	Technical Data	Remark
<b>Junction box set 1</b>				
Junction box	Ningbo Economic & Technical Development zone hengda electrical CO., LTD	PV-JB070	Rated voltage = 1500VDC Rated current = 20A for junction box with diodes of GFT3050SM Rated current = 25A for junction box with diodes of GFT4050SM Number of diodes: 3	Certificate no. B 089469 0011 Rev.00
Adhesive (junction box)	Suzhou Tosan Adhesive Co., Ltd.	1527	Color: white	-
Potting material	Shanghai Huitian New Material Co.,Ltd.	HT-5299W	Color: white	-
Bypass diodes	SUZHOU GOOD-ARK ELECTRONIC CO., LTD	GFT4050SM	Tj max = 200°C If = 40A	-
	SUZHOU GOOD-ARK ELECTRONIC CO., LTD	GFT3050SM	Tj max = 200°C If = 30A	-
Cable	Wuxi Xinhongye Wire & Cable Co., Ltd.	H1Z2Z2-K 1x4.0 mm <sup>2</sup>	Rated voltage = 1500VDC	Certificate no. R 50311889
	Huzhou Shangfu Wire & Cable High Technology Co., Ltd.	H1Z2Z2-K 1x4.0 mm <sup>2</sup>	Rated voltage = 1500VDC	Certificate no. R 50334055
Connectors	Ningbo Economic & Technical development zone hengda electrical CO., LTD	PV-ST101	Rated voltage = 1500VDC Rated current = 30A	Certificate no. R 50386195
<b>Junction box set 2</b>				
Junction box	Jiangxi Jinko PV Material Co., Ltd.	PV-JK09Lxy (x = 2, y = 1 or 2)	Rated voltage =1500VDC Rated current = 25A (x = 2, y = 1) Rated current = 30A (x = 2, y = 2) Number of diodes: 3	Certificate no. R 50354415
Adhesive	Shanghai Huitian New Material Co., Ltd.	HT906Z	Color: white	-
	TOSAN ADHESIVE INC	1527	Color: white	-
Potting material	Shanghai Huitian New Chemical Material Co., Ltd.	5299W-S	Color: white	-
	TOSAN ADHESIVE INC	1521	Color: white	-
Bypass diodes	Jiangxi Jinko PV Material Co., Ltd.	TPA4050-T (x = 2, y = 1)	Tj max=200°C If=40A	-
		TPA4050B-T (x = 2, y = 1)	Tj max=200°C If=40A	-
		TPA4050A-T (x = 2, y = 2)	Tj max=200°C If=40A	-
Cable	DongGuan xinbeisen Wire and Cable Co., Ltd.	H1Z2Z2-K 1x4.0mm <sup>2</sup>	Rated voltage = 1500VDC	Certificate no. R 50355846
	Suzhou Baohing Electric Wire & Cable Co., Ltd.	H1Z2Z2-K 1x4.0mm <sup>2</sup>	Rated voltage = 1500VDC	Certificate no. R 50310426

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(Signature of authorized TÜV NORD CERT engineer)

Object	Manufacturer	Type	Technical Data	Remark
	Jiangxi HeJia Technology Co., Ltd.	H1Z2Z2-K 1x4.0mm <sup>2</sup>	Rated voltage = 1500VDC	Certificate no. R 50346833
	Ningbo Kibor Wire&Cable Co., Ltd.	H1Z2Z2-K 1x4.0mm <sup>2</sup>	Rated voltage = 1500VDC	Certificate no. R 50302047
	Wuxi Xinhongye Wire&Cable Co., Ltd.	H1Z2Z2-K 1x4.0mm <sup>2</sup>	Rated voltage = 1500VDC	Certificate no. R 50311889
Connectors	Jiangxi Jinko PV Material Co., Ltd.	PV-JK03M/xy (Plug +Socket) (x=2, y=B)	Rated voltage = 1500VDC Rated current = 45A	Certificate no.: R 50318165
<b>Junction box set 3</b>				
Junction box	Shanghai JA Solar Technology Co., Ltd.	PVJB-JA-004	Rated voltage =1500VDC Rated current = 25A Number of diodes: 3	Certificate no. B 072092 0287 Rev.05 Test with modules
Adhesive	Shanghai Huitian New Material Co., Ltd.	HT906Z	Color: white	-
	Suzhou Tosan Adhesive Co., Ltd.	1527	Color: white	Test with modules
Potting material	Shanghai Huitian New Chemical Material Co., Ltd.	HT-5299W-S	Color: white	-
	TOSAN ADHESIVE INC	TS1521	Color: white	-
Bypass diodes	PAN JIT INTERNATONAL INC	SBT4050DY	Tj max=200°C If=40A	-
Cable	Shanghai JA Solar Technology Co., Ltd.	H1Z2Z2-K 1x4.0mm <sup>2</sup>	Rated voltage = 1500VDC	Certificate no. B 161172092162
Connectors	QC Solar(Suzhou) Corporation.	QC4.10-cd	Rated voltage = 1500VDC Rated current = 41A	Certificate no.: R 50353779

Remark:

- (1) Fire test Class C according to ANSI/UL 1703-2018 (MST 23 of IEC / EN 61730-2) has been evaluated on all the raw materials listed above.
- (2) Pollution degree I (Sequence B1 of IEC / EN 61730-2) has been evaluated on all the raw materials listed above.
- (3) Those materials marked in blue are added in most recent project.

----- End of CDF -----

Confirmation of the applicant  
Ningbo, 03/02/2023 (Place and date)

Confirmation of TÜV NORD CERT  
Shanghai, \_\_\_\_\_ (Place and date)

\_\_\_\_\_  
(Applicant's legally authorized signature and stamp)

\_\_\_\_\_  
(Signature of authorized TÜV NORD CERT engineer)

# CERTIFICATE

**TÜV NORD CERT GmbH**  
herewith declares that

**Zhejiang Isola New Energy Co., Ltd.**  
Xiufeng village, Gaoqiao town, Haishu area  
Ningbo City, Zhejiang Province  
P.R. China

is authorized to provide the product mentioned below with the mark as illustrated:



**Description of product (details see Annex 2):**

**PV Modules with 6" Mono-crystalline Silicon Solar Cells**

**PV Modules with 6" Mono-crystalline Sliced Silicon Solar Cells**

Valid until: 2024-01-22

Tested according to: IEC / EN 61215:2005;  
IEC 61730-1:2004+A1:2011+A2:2013 / EN 61730-1:2007+A1:2012+A2:2013+A11:2014;  
IEC 61730-2:2004+A1:2011 / EN 61730-2:2007+A1:2012.

Registered No.: 44 780 19 406749 - 359

Manufacturer: see Annex 1

Test Report No.: 492011206.002

File No.: SHV10072/19



**TÜV NORD CERT GmbH**  
Certification Body  
Consumer Products



Essen, 2019-11-04

Please also pay attention to the information stated overleaf.

Anlage 1 zum Zertifikat Nr.: / Annex 1 to Certificate No.: 44 780 19 406749 - 359

Seite / Page 1 von / of 1

Aktenzeichen: / File reference: SHV10072/19

2019-11-04

**Manufacturer:**

Manufacturer: Coded by debtor no. 55437480

Factory inspection report no.: 862010428.001

**Remark:**

Factory inspection is mandatory to be performed annually. Please refer to factory inspection report for detailed information.

A handwritten signature in blue ink, appearing to read "Rosenkranz".

**TÜV NORD CERT GmbH**  
Certification Body  
Consumer Products



### Description of product(s):

Module types:	<b>PV Modules with 6" Mono-crystalline Silicon Solar Cells:</b> 72 cells: YHXXXW-36M (XXX = 295-390, in increment of 5) 60 cells: YHXXXW-30M (XXX = 245-325, in increment of 5) 54 cells: YHXXXW-27M (XXX = 220-290, in increment of 5) 48 cells: YHXXXW-24M (XXX = 200-260, in increment of 5) 36 cells: YHXXXW-18M (XXX = 150-195, in increment of 5)
Maximum system voltage:	1000V
Fuse rating:	15A
Application class:	Class A
Electrical protection class:	Class II
Fire safety class:	Class C
Rated mechanical load:	5400Pa

Module types:	<b>PV Modules with 6" Mono-crystalline Sliced Silicon Solar Cells:</b> 36 cells: YHXXXW-18M (XXX = 110-145, in increment of 5) 36 cells: YHXXXW-18M (XXX = 080-095, in increment of 5) 36 cells: YHXXXW-18M (XXX = 050-070, in increment of 5) 36 cells: YHXXXW-18M (XXX = 005-040, in increment of 5)
Maximum system voltage:	1000V
Fuse rating:	15A
Application class:	Class A
Electrical protection class:	Class II
Fire safety class:	Class C
Rated mechanical load:	5400Pa

### Remark:

For detailed product information, please refer to CDF (Constructional Data Form) in Annex 1 of test report.



**TÜV NORD CERT GmbH**  
Certification Body  
Consumer Products

## Certificate of conformity with the following European Directives

Registered No.:  
**44 799 19 406749 - 069**

### Low-Voltage Directive 2014/35/EU

Date of application	File reference	Test report No.	Date of issue	Place of issue
2019-10-24	SHV10072/19	492011206.002	2019-11-04	Essen

This is to certify that the following products comply to the essential requirements of the above mentioned European Directive and the following standards, taking into account the German national deviations:

**Product:** Crystalline Silicon Terrestrial Photovoltaic (PV) Modules

**Type designation:** See Annex 1

**Applicant:** **Zhejiang Isola New Energy Co., Ltd.**  
Xiufeng village, Gaoqiao town, Haishu area, Ningbo City  
Zhejiang Province, P.R. China

**Standard(s):** EN 61730-1:2007+A1:2012+A2:2013+A11:2014; EN 61730-2:2007+A1:2012

This Certificate of conformity is based on the evaluation of samples of the product. It does not imply an assessment of the production and it does not permit the use of a mark of conformity or of a safety mark of the TÜV NORD CERT GmbH. The holder of this certificate may use this Certificate together with his EC-Declaration of Conformity.



Certification Body  
Specialist Manager Consumer Products

TÜV NORD CERT GmbH  
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**Description of product(s):**

Module types:

**PV Modules with 6" Mono-crystalline Silicon Solar Cells:**

72 cells: YHXXXW-36M (XXX = 295-390, in increment of 5)

60 cells: YHXXXW-30M (XXX = 245-325, in increment of 5)

54 cells: YHXXXW-27M (XXX = 220-290, in increment of 5)

48 cells: YHXXXW-24M (XXX = 200-260, in increment of 5)

36 cells: YHXXXW-18M (XXX = 150-195, in increment of 5)

Module types:

**PV Modules with 6" Mono-crystalline Sliced Silicon Solar Cells:**

36 cells: YHXXXW-18M (XXX = 110-145, in increment of 5)

36 cells: YHXXXW-18M (XXX = 080-095, in increment of 5)

36 cells: YHXXXW-18M (XXX = 050-070, in increment of 5)

36 cells: YHXXXW-18M (XXX = 005-040, in increment of 5)



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# CERTIFICATE

**TÜV NORD CERT GmbH**  
herewith declares that

**Zhejiang Isola New Energy Co., Ltd.**  
Xiufeng Village, Gaoqiao town, Haishu District  
Ningbo City, Zhejiang Province, 315121  
P.R. China

is authorized to provide the product mentioned below with the mark as illustrated:

**Description of product (details see Annex 2):**

**Crystalline Silicon Terrestrial Photovoltaic (PV) Modules**



Valid from: 2023-03-14

Valid until: 2026-04-13

Certification program:	P12-VA-01 Rev. 17 09.20
Certification fundamental(s):	IEC / EN 61215-1:2016; IEC / EN 61215-1-1:2016; IEC 61215-2:2016 / EN 61215-2:2017 + AC:2017 + AC:2018; IEC 61730-1:2016 / EN IEC 61730-1:2018 + AC:2018; IEC 61730-2:2016 / EN IEC 61730-2:2018 + AC:2018.
Registered No.:	44 780 21 406749 - 097R1
Manufacturer:	see Annex 1
Test Report No.:	492011689.002
File No.:	PVP02150/23P



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Essen, 2023-03-14

Please also pay attention to the information stated overleaf.



Anlage 1 zum Zertifikat Nr.: / Annex 1 to Certificate No.: 44 780 21 406749 - 097R1

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Aktenzeichen: / File reference: PVP02150/23P

2023-03-14

**Manufacturer:**

Manufacturer: Coded by debtor no. 55525448

Factory inspection report no.: 862010428.004

**Remark:**

Factory inspection is mandatory to be performed annually. Please refer to factory inspection report for detailed information.



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**Description of product(s):**

Module types:	<b>PV Modules with 7" Half-cut Mono-crystalline Silicon Solar Cells:</b> 144 cells: YHxxxW-36MH (xxx=525-550, in increment of 5) 132 cells: YHxxxW-33MH (xxx=480-505, in increment of 5) 120 cells: YHxxxW-30MH (xxx=440-460, in increment of 5) 108 cells: YHxxxW-27MH (xxx=395-410, in increment of 5)
Maximum system voltage:	1500V
Fuse rating:	20A
Electrical protection class:	Class II
Pollution degree:	1
Material group:	I
Design load (positive / negative):	1600Pa / 1600Pa or 3600Pa / 1600Pa, refer CDF for details
Safety factors:	1.5
Fire safety class:	Class C according to ANSI/UL 1703-2018 (as per ANSI/UL 790-2018)

Module types:	<b>PV Modules with 6" Half-cut Mono-crystalline Silicon Solar Cells:</b> 144 cells: YHxxxW-36MH (xxx=430-460, in increment of 5) 132 cells: YHxxxW-33MH (xxx=395-420, in increment of 5) 120 cells: YHxxxW-30MH (xxx=360-380, in increment of 5)
Maximum system voltage:	1500V
Fuse rating:	20A
Electrical protection class:	Class II
Pollution degree:	1
Material group:	I
Design load (positive / negative):	1600Pa / 1600Pa or 3600Pa / 1600Pa, refer CDF for details
Safety factors:	1.5
Fire safety class:	Class C according to ANSI/UL 1703-2018 (as per ANSI/UL 790-2018)

## Remark:

For detailed product information, please refer to CDF (Constructional Data Form) in Annex 1 of test report.



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