

# CERTIFICATE

**TÜV NORD CERT GmbH**

herewith declares that

**Hunan Red Solar New Energy Science and Technology Co., Ltd.**

1025, Xinkaipu Road, Tianxin District  
Changsha City, Hunan Province, 410111  
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 5" Mono-crystalline Silicon Solar Cells**

Valid until: 2021-11-03

Tested according to: IEC / EN 61215:2005;  
IEC 61730-1:2004 + AMD1:2011 + AMD2:2013 / EN 61730-1:2007 + A1:2012 + A2:2013  
+ A11:2014;  
IEC 61730-2:2004 + AMD1:2011 / EN 61730-2:2007 + A1:2012.

Registered No.: 44 780 19 406749 - 242R1A1M1

Manufacturer: see Annex 1

Test Report No.: 492010710.011

File No.: SHV10029/19-01



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



Essen, 2020-05-22

Please also pay attention to the information stated overleaf.

**Manufacturer:**

Manufacturer 1: **Hunan Red Solar New Energy Science and Technology Co., Ltd.**  
1025, Xinkaipu Road, Tianxin District  
Changsha City, Hunan Province, 410111, P.R. China

Factory inspection report no.: 862010313.004

Manufacturer 2: **Beijing Zhongkexin Electronics Equipment Co., Ltd.**  
No.6, Xingguang 2nd Street, Opto Mechatronics Industry Base  
Tongzhou District, Beijing City, 101100, P.R. China

Factory inspection report no.: 862010314.004

Manufacturer 3: **Hunan Red Solar New Energy Science and Technology Co., Ltd.**  
No. 586, West Tongzipo Road, High-tech Development Zone  
Changsha City, Hunan Province, 410205, P.R. China

Factory inspection report no.: 862010414.002

Manufacturer 4: **Azure Solar Energy Co., Ltd.**  
No.8, Shouchun Road, Lu'an City, Anhui Province, P.R. China

Factory inspection report no.: 862010466.001

Manufacturer 5: **Jiangsu STC New Energy Co., Ltd.**  
No.8, Yongsheng Road, Yixing City, Jiangsu Province, P.R. China

Factory inspection report no.: 862010465.001

**Remark:**

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



**Description of product(s):**

Module types:	<b>PV Modules with 6" Mono-crystalline Silicon Solar Cells</b> 72 cells: CETC-xxxM/72 (xxx=280-430, in increments of 5) 60 cells: CETC-xxxM/60 (xxx=240-360, in increments of 5) 144 half cells: CETC-xxxM/144 (xxx=345-440, in increments of 5) 120 half cells: CETC-xxxM/120 (xxx=290-365, in increments 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:	2400Pa

Module types:	<b>PV Modules with 5" Mono-crystalline Silicon Solar Cells</b> 96 cells: CETC-xxxM/96 (xxx=235-285, in increments of 5) 72 cells: CETC-xxxM/72 (xxx=155-215, in increments 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:	2400Pa

## Remark:

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



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1025, Xinkaipu Road, Tianxin District  
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**Description of product (details see Annex 2):**

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

Valid until: 2021-11-03

Tested according to: IEC / EN 61215:2005;  
IEC 61730-1:2004 + AMD1:2011 + AMD2:2013 / EN 61730-1:2007 + A1:2012 + A2:2013  
+ A11:2014;  
IEC 61730-2:2004 + AMD1:2011 / EN 61730-2:2007 + A1:2012.

Registered No.: 44 780 19 406749 - 243A1M1

Manufacturer: see Annex 1

Test Report No.: 492010710.011

File No.: SHV10029/19-01



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Essen, 2020-05-22

Please also pay attention to the information stated overleaf.

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Manufacturer 4: **Azure Solar Energy Co., Ltd.**  
No.8, Shouchun Road, Lu'an City, Anhui Province, P.R. China

Factory inspection report no.: 862010466.001

Manufacturer 5: **Jiangsu STC New Energy Co., Ltd.**  
No.8, Yongsheng Road, Yixing City, Jiangsu Province, P.R. China

Factory inspection report no.: 862010465.001

**Remark:**

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



**Description of product(s):**

Module types:	<b>PV Modules with 6" Poly-crystalline Silicon Solar Cells:</b> 72 cells: CETC-xxxP/72 (xxx=260-370, in increments of 5) 60 cells: CETC-xxxP/60 (xxx=210-305, in increments of 5) 48 cells: CETC-xxxP/48 (xxx=175-245, in increments of 5) 32 cells: CETC-xxxP/32 (xxx=115-160, in increments of 5) 144 half cells: CETC-xxxP/144 (xxx=315-370, in increments of 5) 120 half cells: CETC-xxxP/120 (xxx=265-305, in increments 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:	2400Pa

**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 20 406749 - 035**

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

Date of application	File reference	Test report No.	Date of issue	Place of issue
2019-10-15	SHV10029/19-01	492010710.011	2020-05-22	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:** Hunan Red Solar New Energy Science and Technology Co., Ltd.  
1025, Xinkaipu Road, Tianxin District  
Changsha City, Hunan Province, 410111, 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

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Fax: +49 (0)201 825-3209  
Email: prodcert@tuev-nord.de

**Description of product(s):**

Module types:

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

72 cells: CETC-xxxM/72 (xxx=280-430, in increments of 5)

60 cells: CETC-xxxM/60 (xxx=240-360, in increments of 5)

144 half cells: CETC-xxxM/144 (xxx=345-440, in increments of 5)

120 half cells: CETC-xxxM/120 (xxx=290-365, in increments of 5)

**PV Modules with 5" Mono-crystalline Silicon Solar Cells:**

96 cells: CETC-xxxM/96 (xxx=235-285, in increments of 5)

72 cells: CETC-xxxM/72 (xxx=155-215, in increments of 5)

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

72 cells: CETC-xxxP/72 (xxx=260-370, in increments of 5)

60 cells: CETC-xxxP/60 (xxx=210-305, in increments of 5)

48 cells: CETC-xxxP/48 (xxx=175-245, in increments of 5)

32 cells: CETC-xxxP/32 (xxx=115-160, in increments of 5)

144 half cells: CETC-xxxP/144 (xxx=315-370, in increments of 5)

120 half cells: CETC-xxxP/120 (xxx=265-305, in increments of 5)



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