

Certificate of conformity with the following European Directives

Registered No.:
44 799 18 406749 - 011

Low-Voltage Directive 2014/35/EU

Date of application	File reference	Test report No.	Date of issue	Place of issue
2018-06-26	SHV06076/18-04	492010711.002	2018-07-18	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

TÜV NORD CERT GmbH
Langemarckstrasse 20
D-45141 Essen
P.O.Box 10 32 61
D-45032 Essen
Fon: +49 (0)201 825-5120
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: ZKX-xxxD(H)/72 (xxx=280-395, in increments of 5) 60 cells: ZKX-xxxD(H)/60 (xxx=240-325, in increments of 5)
Module types:	PV Modules with 5" Mono-crystalline Silicon Solar Cells 96 cells: ZKX-xxxD(H)/96 (xxx=235-285, in increments of 5) 72 cells: ZKX-xxxD(H)/72 (xxx=155-215, in increments of 5)
Module types:	PV Modules with 6" Poly-crystalline Silicon Solar Cells 72 cells: ZKX-xxxP(H)/72 (xxx=260-370, in increments of 5) 60 cells: ZKX-xxxP(H)/60 (xxx=210-305, in increments of 5)



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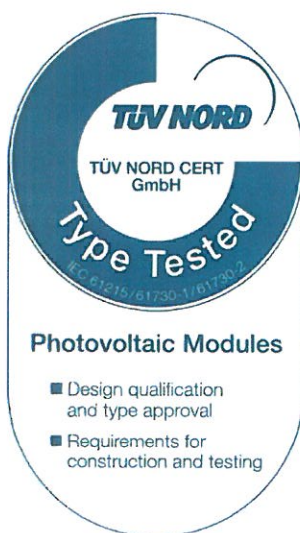
CERTIFICATE



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: 2021-10-27

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 18 406749 - 218

Manufacturer: see Annex 1

Test Report No.: 492010711.002

File No.: SHV06076/18-04

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Certification Body
Consumer Products



Essen, 2018-07-18

Please also pay attention to the information stated overleaf.

Anlage 1 zum Zertifikat Nr.: / Annex 1 to Certificate No.: 44 780 18 406749 - 218

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Aktenzeichen: / File reference: SHV06076/18-04

2018-07-18

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.: 862010313.002

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.: 862010314.002

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: **PV Modules with 6" Mono-crystalline Silicon Solar Cells:**
72 cells: ZKX-xxxD(H)/72 (xxx=280-395, in increments of 5)
60 cells: ZKX-xxxD(H)/60 (xxx=240-325, in increments of 5)

Maximum system voltage: 1500V
Fuse rating: 15A
Application class: Class A
Electrical protection class: Class II
Fire safety class: Class C
Rated mechanical load: 2400Pa

Module types: **PV Modules with 5" Mono-crystalline Silicon Solar Cells:**
96 cells: ZKX-xxxD(H)/96 (xxx=235-285, in increments of 5)
72 cells: ZKX-xxxD(H)/72 (xxx=155-215, in increments of 5)

Maximum system voltage: 1500V
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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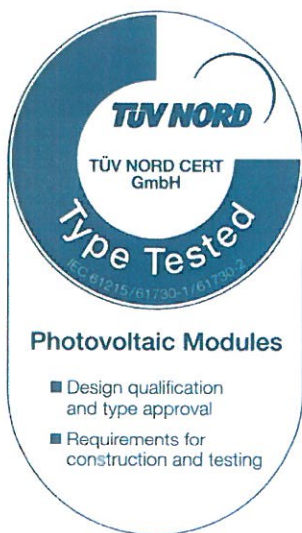
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herewith declares that

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" Poly-crystalline Silicon Solar Cells

Valid until: 2021-10-27

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 18 406749 - 219

Manufacturer: see Annex 1

Test Report No.: 492010711.002

File No.: SHV06076/18-04

TÜV NORD CERT GmbH
Certification Body
Consumer Products



Essen, 2018-07-18

Please also pay attention to the information stated overleaf.

Anlage 1 zum Zertifikat Nr.: / Annex 1 to Certificate No.: 44 780 18 406749 - 219

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Aktenzeichen: / File reference: SHV06076/18-04

2018-07-18

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.: 862010313.002

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.: 862010314.002

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:	PV Modules with 6" Poly-crystalline Silicon Solar Cells: 72 cells: ZKX-xxxP(H)/72 (xxx=260-370, in increments of 5) 60 cells: ZKX-xxxP(H)/60 (xxx=210-305, in increments of 5)
Maximum system voltage:	1500V
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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