

Certificate of conformity with the following European Directives

Registered No.:
44 799 22 406749 - 086

Low-Voltage Directive 2014/35/EU

Date of application	File reference	Test report No.	Date of issue	Place of issue
2022-05-23	PVP05065/22P-01	492012081.001	2022-07-06	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:

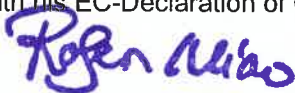
Product: Crystalline Silicon Terrestrial Photovoltaic (PV) Modules

Type designation: See Annex 1

Applicant: **Sunova Solar Technology Co., Ltd.**
Building H, Phase II, Standard Workshop, Runzhou Road, Huishan
Industrial Transformation and Agglomeration Area 214115 Wuxi, Jiangsu
Province, P.R. China

Standard(s): EN IEC 61730-1:2018; EN IEC 61730-1:2018/AC:2018-06
EN IEC 61730-2:2018; EN IEC 61730-2:2018/AC:2018-06

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
Am TÜV 1
D-45307 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 Mono-crystalline Silicon Solar Cells (156.75mm to 158.75mm)**

72 cells: SS-xxx-72M (xxx = 330-385, in increment of 5)

60 cells: SS-xxx-60M (xxx = 275-320, in increment of 5)

Module types: **PV Modules with Mono-crystalline Silicon Half-cut Solar Cells (158.75mm to 166mm)**

144 cells: SS-xxx-72MD (xxx = 390-450, in increment of 5)

120 cells: SS-xxx-60MD (xxx = 325-375, in increment of 5)

Module types: **PV Modules with 182mm Mono-crystalline Silicon Half-cut Solar Cells**

156 cells: SS-xxx-78MDH (xxx = 565-595, in increment of 5)

144 cells: SS-xxx-72MDH (xxx = 520-555, in increment of 5)

132 cells: SS-xxx-66MDH (xxx = 480-505, in increment of 5)

120 cells: SS-xxx-60MDH (xxx = 435-460, in increment of 5)

108 cells: SS-xxx-54MDH (xxx = 395-415, in increment of 5)

Module types: **PV Modules with 210mm Mono-crystalline Silicon Half-cut Solar Cells**

132 cells: SS-xxx-66MDH-G12 (xxx = 640-670, in increment of 5)

120 cells: SS-xxx-60MDH-G12 (xxx = 585-605, in increment of 5)

108 cells: SS-xxx-54MDH-G12 (xxx = 525-545, in increment of 5)

96 cells: SS-xxx-48MDH-G12 (xxx = 465-485, in increment of 5)

84 cells: SS-xxx-42MDH-G12 (xxx = 405-425, in increment of 5)

110 cells: SS-xxx-55MDH-G12 (xxx = 530-555, in increment of 5)

100 cells: SS-xxx-50MDH-G12 (xxx = 480-505, in increment of 5)

90 cells: SS-xxx-45MDH-G12 (xxx = 430-455, in increment of 5)

80 cells: SS-xxx-40MDH-G12 (xxx = 390-400, in increment of 5)



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Module types: **PV Modules with 210mm Mono-crystalline Silicon 1/3-cut Solar Cells**
150 cells: SS-xxx-75MDH-G12 (xxx = 485-510, in increment of 5)
120 cells: SS-xxx-60MDH-G12 (xxx = 385-405, in increment of 5)

Module types: **PV Modules with 156.75mm Poly-crystalline Silicon Solar Cells**
72 cells: SS-xxx-72P (xxx = 305-335, in increment of 5)
60 cells: SS-xxx-60P (xxx = 255-280 in increment of 5)

Module types: **PV Modules with 158.75mm Poly-crystalline Silicon Half-cut Solar Cells**
144 cells: SS-xxx-72PD (xxx = 395-405, in increment of 5)
120 cells: SS-xxx-60PD (xxx = 330-335, in increment of 5)



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CERTIFICATE

TÜV NORD CERT GmbH
herewith declares that

Sunova Solar Technology Co., Ltd.

Building H, Phase II, Standard Workshop, Runzhou Road, Huishan Industrial Transformation and Agglomeration Area 214115 Wuxi, Jiangsu Province, 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: 2022-07-06

Valid until: 2027-07-05

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 22 406749 - 139
Manufacturer:	see Annex 1
Test Report No.:	492012081.001
File No.:	PVP05065/22P-01



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Essen, 2022-07-06

Please also pay attention to the information stated overleaf.

Anlage 1 zum Zertifikat Nr.: / Annex 1 to Certificate No.: 44 780 22 406749 - 139

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Aktenzeichen: / File reference: PVP05065/22P-01

2022-07-06

Manufacturer:

Manufacturer :

Sunova Solar Technology Co., Ltd.

Building H, Phase II, Standard Workshop, Runzhou Road, Huishan
Industrial Transformation and Agglomeration Area 214115 Wuxi, Jiangsu
Province, P.R. China

Factory inspection report no.:

862010664.001

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 Mono-crystalline Silicon Solar Cells (156.75mm to 158.75mm) 72 cells: SS-xxx-72M (xxx = 330-385, in increment of 5) 60 cells: SS-xxx-60M (xxx = 275-320, in increment of 5)
Maximum system voltage:	1500V
Fuse rating:	15A
Electrical protection class:	Class II
Pollution degree:	1
Material group:	I
Design load (positive / negative):	3600Pa / 1600Pa
Safety factors:	1.5
Fire safety class:	Class C according to ANSI/UL 1703-2018 (as per ANSI/UL 790-2018)

Module types:	PV Modules with Mono-crystalline Silicon Half-cut Solar Cells (158.75mm to 166mm) 144 cells: SS-xxx-72MD (xxx = 390-415, in increment of 5) 120 cells: SS-xxx-60MD (xxx = 325-345, in increment of 5) 144 cells: SS-xxx-72MD (xxx = 420-450, in increment of 5) 120 cells: SS-xxx-60MD (xxx = 350-375, in increment of 5)
Maximum system voltage:	1500V
Fuse rating:	15A
Electrical protection class:	Class II
Pollution degree:	1
Material group:	I
Design load (positive / negative):	3600Pa / 1600Pa
Safety factors:	1.5
Fire safety class:	Class C according to ANSI/UL 1703-2018 (as per ANSI/UL 790-2018)



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Module types:	PV Modules with 182mm Mono-crystalline Silicon Half-cut Solar Cells 156 cells: SS-xxx-78MDH (xxx = 565-595, in increment of 5) 144 cells: SS-xxx-72MDH (xxx = 520-555, in increment of 5) 132 cells: SS-xxx-66MDH (xxx = 480-505, in increment of 5) 120 cells: SS-xxx-60MDH (xxx = 435-460, in increment of 5) 108 cells: SS-xxx-54MDH (xxx = 395-415, in increment of 5)
Maximum system voltage:	1500V
Fuse rating:	25A
Electrical protection class:	Class II
Pollution degree:	1
Material group:	I
Design load (positive / negative):	3600Pa / 1600Pa
Safety factors:	1.5
Fire safety class:	Class C according to ANSI/UL 1703-2018 (as per ANSI/UL 790-2018)

Module types:	PV Modules with 210mm Mono-crystalline Silicon Half-cut Solar Cells 132 cells: SS-xxx-66MDH-G12 (xxx = 640-670, in increment of 5) 120 cells: SS-xxx-60MDH-G12 (xxx = 585-605, in increment of 5) 108 cells: SS-xxx-54MDH-G12 (xxx = 525-545, in increment of 5) 96 cells: SS-xxx-48MDH-G12 (xxx = 465-485, in increment of 5) 84 cells: SS-xxx-42MDH-G12 (xxx = 405-425, in increment of 5) 110 cells: SS-xxx-55MDH-G12 (xxx = 530-555, in increment of 5) 100 cells: SS-xxx-50MDH-G12 (xxx = 480-505, in increment of 5) 90 cells: SS-xxx-45MDH-G12 (xxx = 430-455, in increment of 5) 80 cells: SS-xxx-40MDH-G12 (xxx = 390-400, in increment of 5)
Maximum system voltage:	1500V
Fuse rating:	30A
Electrical protection class:	Class II
Pollution degree:	1
Material group:	I
Design load (positive / negative):	3600Pa / 1600Pa
Safety factors:	1.5
Fire safety class:	Class C according to ANSI/UL 1703-2018 (as per ANSI/UL 790-2018)



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Module types:	PV Modules with 210mm Mono-crystalline Silicon 1/3-cut Solar Cells 150 cells: SS-xxx-75MDH-G12 (xxx = 485-510, in increment of 5) 120 cells: SS-xxx-60MDH-G12 (xxx = 385-405, 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):	3600Pa / 1600Pa
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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EU Declaration of Conformity

(No. CE-07136699)

We **Huawei Technologies Co., Ltd.**

**Administration Building, Headquarters of Huawei Technologies Co., Ltd.,
Bantian, Longgang District, Shenzhen, 518129, P.R.C**

declare under our sole responsibility that the product

Name/Trademark Solar Inverter/HUAWEI

Model/Software SUN2000-40KTL-M3, SUN2000-36KTL-M3, SUN2000-30KTL-M3
SUN2000-29.9KTL-M3/V100

Accessories NA

comply with the following directives and regulations:

- 2014/53/EU(Radio Equipment Directive)
- 2011/65/EU & (EU) 2015/863 (RoHS Directive)

For the evaluation of the compliance with these Directives and Regulations, the following standards/requirements were applied:

Artificial 3.1 (a) Safety & Health	EN 62109-1:2010 EN IEC 62311:2020
Artificial 3.1 (b) EMC	EN 55011:2016 EN 55011:2016+A1:2017 EN 62920:2017 EN 61000-6-1:2007 EN IEC 61000-6-1:2019 EN 61000-6-2:2005 EN IEC 61000-6-2:2019 EN 61000-3-11:2000 EN IEC 61000-3-11:2019 EN 61000-3-12:2011 ETSI EN 301 489-1 V2.2.3:2019 ETSI EN 301 489-17 V3.2.4:2020 EN 61000-6-3:2007+A1:2011 EN 61000-6-4:2007+A1:2011 EN IEC 61000-6-4:2019
Artificial 3.2 Radio	ETSI EN 300 328 V2.2.2(2019-07)
RoHS	EN 50581:2012

CE Marking Date: 2020-11-06

Responsible for making this declaration is the:

☒ Manufacturer ☐ Authorised representative established within the EU

Person responsible for making this declaration

Print name/Title : LingHongDong

Regulation Compliance Manager

China, Shenzhen 2020-11-06
(Place) (Date)

Ling Hong Dong
(Signature)

EU Declaration of Conformity

(No. CE-04397112-02)

We **Huawei Technologies Co., Ltd.**

**Administration Building, Headquarters of Huawei Technologies Co., Ltd.,
Bantian, Longgang District, Shenzhen, 518129, P.R.C**

declare that the product

Name/Trademark : SOLAR INVERTER/HUAWEI

Model : SUN2000-50KTL-M0

SUN2000-60KTL-M0

complies with the following directives:

- **2014/35/EU (Low Voltage Directive)**
- **2014/30/EU (EMC Directive)**
- **2011/65/EU (RoHS Directive)**

For the evaluation of the compliance with these Directives, the following standards/implementing regulations have been applied:

Safety	EN 62109-1:2010 EN 62109-2:2011
EMC	EN 61000-3-12:2011 EN 61000-3-11:2000 EN 61000-6-1:2007 EN 61000-6-2:2005 EN 61000-6-3:2007+A1:2011* EN 61000-6-4:2007+A1:2011*
RoHS	EN 50581: 2012

***The PLC communication mode or AC 480V power supply mode of Solar Inverter is not apply to this standard.

This declaration of conformity is issued under the sole responsibility of the manufacturer.

CE Marking Date: 2018-10-08

Responsible for making this declaration is the:

☒ Manufacturer ☐ Authorised representative established within the EU

Signed for and on behalf of: Huawei Technologies Co., Ltd.

Print name/Title : Ling HongDong / Regulation Compliance Manager

Shenzhen, China
(Place)

Oct.08, 2018
(Date)

Ling Hong Dong
(Signature)