

# CERTIFICATE

**TÜV NORD CERT GmbH**

herewith declares that

**Sunpal Power Co., Ltd.**

3rd Floor, Xincheng Electric Power Building, No. 398, Ganquan Road,  
Shushan District, Hefei City, Anhui Province

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: 2023-02-21

Valid until: 2028-05-09

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 23 406749 - 032
Manufacturer:	see Annex 1
Test Report No.:	492012304.001
File No.:	PVP02068/23P



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**Certification Body**  
**Consumer Products**



Essen, 2023-02-21

Please also pay attention to the information stated overleaf.

Anlage 1 zum Zertifikat Nr.: / Annex 1 to Certificate No.: 44 780 23 406749 - 032

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Aktenzeichen: / File reference: PVP02068/23P

2023-02-21

**Manufacturer:**

Manufacturer: **Coded by debtor no. 55403167**

Factory inspection report no.: 862010379.005

**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 6" Mono-crystalline Silicon Solar Cells:</b> 72 cells: SP***M-72 (***=310-375, in increment of 5) 60 cells: SP***M-60 (***=260-310, in increment of 5) 54 cells: SP***M-54 (***=235-270, in increment of 5) 48 cells: SP***M-48 (***=205-240, in increment of 5) 42 cells: SP***M-42 (***=185-210, in increment of 5) 36 cells: SP***M-36 (***=160-180, in increment of 5) 30 cells: SP***M-30 (***=135-150, in increment of 5)
Maximum system voltage:	1500V
Fuse rating:	15A
Electrical protection class:	Class II
Pollution degree:	1
Material group:	I or II
Design load (positive / negative):	5400Pa (positive) / 2400Pa (negative) or 3600Pa (positive) / 1600Pa (negative)
Safety factors:	1.5
Fire safety class:	Class C according to ANSI/UL 1703-2018 (per ANSI/UL 790-2018)
Module types:	<b>PV Modules with 6" Mono-crystalline Silicon Solar Cells:</b> 72 cells: SP***M-72 (***=380-395, in increment of 5) 60 cells: SP***M-60 (***=320-330, in increment of 5)
Maximum system voltage:	1500V
Fuse rating:	15A
Electrical protection class:	Class II
Pollution degree:	1
Material group:	I or II
Design load (positive / negative):	3600Pa (positive) / 1600Pa (negative)
Safety factors:	1.5
Fire safety class:	Class C according to ANSI/UL 1703-2018 (per ANSI/UL 790-2018)



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Module types:	<b>PV Modules with 6" Half Cut Mono-crystalline Silicon Solar Cells:</b> 144 cells: SP***M-72H (***=365-400, in increment of 5) 132 cells: SP***M-66H (***=335-365, in increment of 5) 120 cells: SP***M-60H (***=305-330, in increment of 5)
Maximum system voltage:	1500V
Fuse rating:	15A or 20A
Electrical protection class:	Class II
Pollution degree:	1
Material group:	I or II
Design load (positive / negative):	3600Pa (positive) / 1600Pa (negative)
Safety factors:	1.5
Fire safety class:	Class C according to ANSI/UL 1703-2018 (per ANSI/UL 790-2018)

Module types:	<b>PV Modules with 6" Half Cut Mono-crystalline Silicon Solar Cells:</b> 144 cells: SP***M-72H (***=405-410, in increment of 5) 132 cells: SP***M-66H (***=360-375, in increment of 5) 120 cells: SP***M-60H (***=325-340, in increment of 5)
Maximum system voltage:	1500V
Fuse rating:	15A or 20A
Electrical protection class:	Class II
Pollution degree:	1
Material group:	I or II
Design load (positive / negative):	3600Pa (positive) / 1600Pa (negative)
Safety factors:	1.5
Fire safety class:	Class C according to ANSI/UL 1703-2018 (per ANSI/UL 790-2018)



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Module types:	<b>PV Modules with 6" Half Cut Mono-crystalline Silicon Solar Cells:</b> 144 cells: SP***M-72H (***=420-455, in increment of 5) 132 cells: SP***M-66H (***=385-415, in increment of 5) 120 cells: SP***M-60H (***=350-380, in increment of 5)
Maximum system voltage:	1500V
Fuse rating:	20A
Electrical protection class:	Class II
Pollution degree:	1
Material group:	I or II
Design load (positive / negative):	3600Pa (positive) / 1600Pa (negative)
Safety factors:	1.5
Fire safety class:	Class C according to ANSI/UL 1703-2018 (per ANSI/UL 790-2018)

Module types:	<b>PV Modules with 7" Half Cut Mono-crystalline Silicon Solar Cells:</b> 156 cells: SP***M-78H (***=560-605, in increment of 5) 144 cells: SP***M-72H (***=515-570, in increment of 5) 132 cells: SP***M-66H (***=475-520, in increment of 5) 120 cells: SP***M-60H (***=430-475, in increment of 5) 108 cells: SP***M-54H (***=390-425, in increment of 5)
Maximum system voltage:	1500V
Fuse rating:	25A or 30A
Electrical protection class:	Class II
Pollution degree:	1
Material group:	I or II
Design load (positive / negative):	3600Pa (positive) / 1600Pa (negative)
Safety factors:	1.5
Fire safety class:	Class C according to ANSI/UL 1703-2018 (per ANSI/UL 790-2018)



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Module types:	<b>PV Modules with 8" Half Cut Mono-crystalline Silicon Solar Cells:</b> 132 cells: SP***M-66H (***=630-670, in increment of 5) 120 cells: SP***M-60H (***=575-610, in increment of 5) 108 cells: SP***M-54H (***=515-545, in increment of 5) 96 cells: SP***M-48H (***=460-485, in increment of 5) 84 cells: SP***M-42H (***=400-425, in increment of 5) 110 cells: SP***M-55H (***=520-555, in increment of 5) 100 cells: SP***M-50H (***=475-505, in increment of 5) 90 cells: SP***M-45H (***=425-455, in increment of 5) 80 cells: SP***M-40H (***=380-400, in increment of 5)
Maximum system voltage:	1500V
Fuse rating:	30A or 35A
Electrical protection class:	Class II
Pollution degree:	1
Material group:	I or II
Design load (positive / negative):	3600Pa (positive) / 1600Pa (negative)
Safety factors:	1.5
Fire safety class:	Class C according to ANSI/UL 1703-2018 (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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