

CERTIFICATE

TÜV NORD CERT GmbH
herewith declares that

JSHINE SOLAR TECHNOLOGY CO., LIMITED
ROOM A1, 11/F WINNER BUILDING, 36 MAN YUE STREET, HUNG HOM
KOWLOON, HONG KONG.

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: 2022-07-18
Valid until: 2023-10-11

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 - 165
Manufacturer:	see Annex 1
Test Report No.:	492012111.001
File No.:	PVP07015/22P-01



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Essen, 2022-07-18

Please also pay attention to the information stated overleaf.

Manufacturer:

Manufacturer 1: **Suzhou Akcome Optronics Science & Technology Co., Ltd.**
Jintang Rd, Zhangjiagang Economic Development Zone
Zhangjiagang City, Jiangsu Province, 215618, P.R. China
Factory inspection report no.: 862010243.008

Manufacturer 2: **Zhejiang Akcome Optronics Science&Technology Co., Ltd.**
Zheneng Science and Technology Industrial Park, Meishan Town
Changxing, Huzhou City, Zhejiang, P.R.China
Factory inspection report no.: 862010481.003

Manufacturer 3: **Ganzhou Akcome Optronics Science & Technology Co., Ltd.**
Jingba Industrial Zone, Jingba Town, Nankang District
Ganzhou City, Jiangxi Province, 341408, P.R. China
Factory inspection report no.: 862010369.004

Manufacturer 4: **Zhejiang Runhai New Energy Co., Ltd.**
High-tech Industrial Park, Dinghai District, Zhoushan City, Zhejiang,
P.R.China
Factory inspection report no.: 862010654.001

Remark:

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



Description of product(s):

Module types:	PV Modules with half-cut 6" Mono-crystalline Silicon Solar Cells: 144 cells: JSxxx-144MG (xxx = 390-425, in increment of 5) 132 cells: JSxxx-132MG (xxx = 355-390, in increment of 5) 120 cells: JSxxx-120MG (xxx = 320-355, in increment of 5) 144 cells: JSxxx-144M6 (xxx = 420-470, in increment of 5) 132 cells: JSxxx-132M6 (xxx = 385-430, in increment of 5) 120 cells: JSxxx-120M6 (xxx = 350-390, in increment of 5) 108 cells: JSxxx-108M6 (xxx = 315-350, in increment of 5)
Maximum system voltage:	1500V
Fuse rating:	20A
Electrical protection class:	Class II
Pollution degree:	1
Material group:	I or IIIa
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 half-cut 7" Mono-crystalline Silicon Solar Cells: 144 cells: JSxxx-144M10 (xxx = 525-565, in increment of 5) 132 cells: JSxxx-132M10 (xxx = 480-515, in increment of 5) 120 cells: JSxxx-120M10 (xxx = 440-470, in increment of 5) 108 cells: JSxxx-108M10 (xxx = 395-420, in increment of 5)
Maximum system voltage:	1500V
Fuse rating:	25A
Electrical protection class:	Class II
Pollution degree:	1
Material group:	I or IIIa
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 half-cut 8" Mono-crystalline Silicon Solar Cells: 132 cells: JSxxx-132M12 (xxx = 645-670, in increment of 5) 120 cells: JSxxx-120M12 (xxx = 585-610, in increment of 5) 110 cells: JSxxx-110M12 (xxx = 535-555, in increment of 5)
Maximum system voltage:	1500V
Fuse rating:	30A
Electrical protection class:	Class II
Pollution degree:	1
Material group:	I or IIIa
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 1/3-cut 8" Mono-crystalline Silicon Solar Cells: 150 cells: JSxxx-150M12 1/3 cut (xxx = 495-520, in increment of 5) 120 cells: JSxxx-120M12 1/3 cut (xxx = 395-415, in increment of 5)
Maximum system voltage:	1500V
Fuse rating:	20A
Electrical protection class:	Class II
Pollution degree:	1
Material group:	I or IIIa
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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