

# CERTIFICATE

**TÜV NORD CERT GmbH**  
herewith declares that

**Suzhou Akcome Optronics Science & Technology Co., Ltd.**  
Jintang Rd, Zhangjiagang Economic Development Zone  
Zhangjiagang City, Jiangsu Province, 215618  
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: 2023-06-12  
Valid until: 2028-04-25

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 21 406749 - 091R12A2M22
Manufacturer:	see Annex 1
Test Report No.:	492011690.024
File No.:	PVP05072/23P



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



Essen, 2023-06-12

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.: 862010243.009

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.: 862010481.004

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.: 862010369.005

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.



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**Description of product(s):**

Module types:	<b>Double glass PV Modules with half-cut 6" Bifacial Mono Solar Cells:</b> 144 cells: SK6612MDGDC-xxx (xxx = 400-425, in increment of 5) 120 cells: SK6610MDGDC-xxx (xxx = 340-350, in increment of 5) 144 cells: SK8612MDGDC-xxx (xxx = 425-475, in increment of 5) 120 cells: SK8610MDGDC-xxx (xxx = 355-395, 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 or 1600Pa / 1600Pa
Safety factors:	1.5
Fire safety class:	Class A according to ANSI/UL 1703-2018 (as per ANSI/UL 790-2018)

Module types:	<b>Double glass PV Modules with half-cut 7" Bifacial Mono Solar Cells:</b> 144 cells: SK9612MDGDC-xxx (xxx = 520-560, in increment of 5) 132 cells: SK9611MDGDC-xxx (xxx = 475-510, in increment of 5) 120 cells: SK9610MDGDC-xxx (xxx = 435-465, in increment of 5) 108 cells: SK9609MDGDC-xxx (xxx = 390-420, 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 or 1600Pa / 1600Pa
Safety factors:	1.5
Fire safety class:	Class A or C according to ANSI/UL 1703-2018 (as per ANSI/UL 790-2018)



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Module types:	<b>Double glass PV Modules with half-cut 8" Bifacial Mono Solar Cells:</b> 132 cells: SKA611MDGDC-xxx (xxx = 635-675, in increment of 5) 120 cells: SKA610MDGDC-xxx (xxx = 580-610, in increment of 5) 110 cells: SKA511MDGDC-xxx (xxx = 525-560, 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 A or C according to ANSI/UL 1703-2018 (as per ANSI/UL 790-2018)

Module types:	<b>Double glass PV Modules with half-cut 6" n-type heterojunction Bifacial Mono Solar Cells:</b> 144 cells: SK6612HDGDC-xxx (xxx = 415-440, in increment of 5) 132 cells: SK6611HDGDC-xxx (xxx = 380-400, in increment of 5) 120 cells: SK6610HDGDC-xxx (xxx = 350-365, in increment of 5) 144 cells: SK8612HDGDC-xxx (xxx = 450-490, in increment of 5) 132 cells: SK8611HDGDC-xxx (xxx = 410-450, in increment of 5) 120 cells: SK8610HDGDC-xxx (xxx = 375-405, 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 or 1600Pa / 1600Pa
Safety factors:	1.5
Fire safety class:	Class A according to ANSI/UL 1703-2018 (as per ANSI/UL 790-2018)



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Module types:	<b>Double glass PV Modules with half-cut 8" n-type heterojunction Bifacial Mono Solar Cells:</b> 132 cells: SKA611HDGDC-xxx (xxx = 625-700, in increment of 5) 120 cells: SKA610HDGDC-xxx (xxx = 585-635, in increment of 5) 110 cells: SKA511HDGDC-xxx (xxx = 540-580, in increment of 5) 100 cells: SKA510HDGDC-xxx (xxx = 490-530, in increment of 5) 90 cells: SKA509HDGDC-xxx (xxx = 440-475, in increment of 5) 80 cells: SKA508HDGDC-xxx (xxx = 390-425, in increment of 5)
Maximum system voltage:	1500V
Fuse rating:	35A
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 A or C according to ANSI/UL 1703-2018 (as per ANSI/UL 790-2018)

Module types:	<b>Double glass PV Modules with 1/6-cut Shingled 6" n-type heterojunction Bifacial Mono Solar Cells:</b> 468 cells: SK6678HDGDS-xxx (xxx =380-395, in increment of 5) 396 cells: SK6666HDGDS-xxx (xxx =320-335, 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 A according to ANSI/UL 1703-2018 (as per ANSI/UL 790-2018)



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Module types:	<b>Double glass PV Modules with half-cut 7" n-type Topcon Bifacial Mono Solar Cells:</b> 156 cells: SK9613TDGDC-xxx (xxx=605-630, in increment of 5) 144 cells: SK9612TDGDC-xxx (xxx=555-580, in increment of 5) 132 cells: SK9611TDGDC-xxx (xxx=510-530, in increment of 5) 120 cells: SK9610TDGDC-xxx (xxx=465-480, in increment of 5) 108 cells: SK9609TDGDC-xxx (xxx=415-435, 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 A 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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