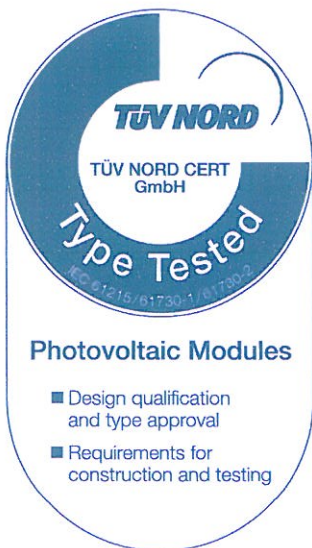


**TÜV NORD CERT GmbH**  
herewith declares that

**OPES Solutions Co., Ltd.**  
1F, B1, Wujin Hutang Sci. and Tech. Industry Park, Changzhou, PRC

is authorized to provide the product mentioned below with the mark as illustrated:



**Description of product (details see Annex 2):**

**Photovoltaic (PV) Modules**

**Model:** OPES 60FPdef, OPES 36FPdef, OPES 72CPdef, OPES 36CPdef, OPES 12CPdef, OPES 10CPdef, OPES 9CPdef, OPES 33CPdef

Valid until 2022-08-06

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 17 406749 - 143

Manufacturer: see Annex 1

Test Report No.: TWR1706004 001

File No.: TW057716R1



TÜV NORD CERT GmbH  
Certification Body  
Consumer Products

Essen, 2017-08-07

Please also pay attention to the information stated overleaf.

Anlage 1 zum Zertifikat Nr.: / Annex 1 to Certificate No.: 44 780 17 406749 - 143

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Aktenzeichen: / File reference: TW057716R1

2017-08-07

Liste der Fertigungsstätten: / List of manufacturing plant:

1. **OPES Solutions Co., Ltd.**  
1F, B1, Wujin Hutang Sci. and Tech. Industry Park, Changzhou, PRC

Die Liste enthält 1 Fertigungsstätten. / This list contains 1 manufacturing plant.

A handwritten signature in blue ink, appearing to read "Rogers K1".

TÜV NORD CERT GmbH  
Certification Body  
Consumer Products

Type Designation	Cell Q'ty	Cell Size (mm)	Power Range (W)
OPES 60FPdef	60 pcs	156 x 156	225 - 275
OPES 36FPdef	36 pcs	156 x 156	135 - 165
OPES 72CPdef	72 pcs	156 x 104.5	180 - 220
OPES 36CPdef	36 pcs	156 x 78	75 - 85
		156 x 83	75 - 90
		156 x 52	45 - 55
		156 x 41.6	36 - 44
		156 x 39	35 - 40
		156 x 31.2	27 - 33
		78 x 52	22 - 27
		78 x 39	18 - 22
		78 x 31.2	14 - 17
		39 x 52	11 - 13
		39 x 39	9 - 11
		156 x 104	90 - 105
		156 x 117	100 - 120
		156 x 124	110 - 135
156 x 130	115 - 135		
OPES 12CPdef	12 pcs	156 x 39	11 - 13
		78 x 39	5.5 - 6.5
		78 x 22	3 - 3.6
OPES 10CPdef	10 pcs	39 x 39	2.5 - 2.9
OPES 9CPdef	9 pcs	156 x 11	2.2 - 2.8
OPES 33CPdef	33 pcs	33 x 5.2	0.9 - 1.1

Cell Technology: Poly-Crystalline  
Maximum System Voltage: DC 1000V  
Maximum Over-Current Protection Rating: 20A maximum  
Safety Application Class: A  
Safety Class: Class II  
Fire Safety Class: C



**TÜV NORD CERT GmbH**  
**Certification Body**  
**Consumer Products**

Anlage 2 zum Zertifikat Nr.: / Anne 2 to Certificate No.: 44 780 17 406749 - 143

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Aktenzeichen: / File reference: TW057716R1

2017-08-07

Static Mechanical Load: Mechanical load at 5400 Pa has been performed

A handwritten signature in blue ink, appearing to read "Rogner".

**TÜV NORD CERT GmbH**  
**Certification Body**  
**Consumer Products**