

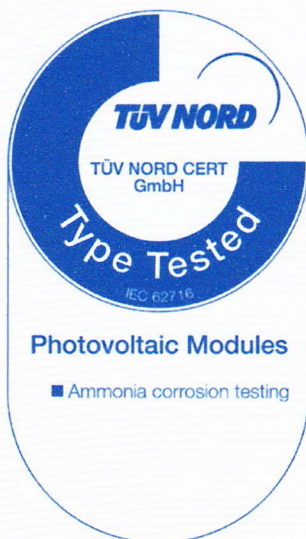
# CERTIFICATE



**TÜV NORD CERT GmbH**  
herewith declares that

**Perlight Solar Co., Ltd.**  
Oufeng Road, Muyu Administration Area, Zeguo Town  
Wenling City, Zhejiang Province  
317521  
P.R. China

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



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

**PV Modules with 6" Mono-crystalline Silicon Solar Cells**

**PV Modules with 5" Mono-crystalline Silicon Solar Cells**

**PV Modules with 6" Poly-crystalline Silicon Solar Cells**

Tested according to: IEC 62716: 2013  
Registered No.: 44 780 14 406749 - 108  
Manufacturer: see Annex 1  
Test Report No.: 492010515.001  
File No.: SHV03026/14-02

Valid until: 2019-09-17

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Essen, 2014-09-18

Please also pay attention to the information stated overleaf.

Anlage 1 zum Zertifikat Nr.: / Annex 1 to Certificate No.: 44 780 14 406749 - 108

Seite / Page 1 von / of 1

Aktenzeichen: / File reference: SHV03026/14-02

2014-09-18

**Manufacturer:**

Manufacturer: **Perlight Solar Co., Ltd.**  
Oufeng Road, Muyu Administration Area, Zeguo Town  
Wenling City, Zhejiang Province, 317521, P.R. China

Factory inspection report no.: 862010190.002

**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 6" Mono-crystalline Silicon Solar Cells:**

72 cells: PLM-\*\*\*M-72 (\*\*\*) = 245-320, in increment of 5)  
72 cells: PLM-\*\*\*MA-72 (\*\*\*) = 245-320, in increment of 5)  
72 cells: PLM-\*\*\*MB-72 (\*\*\*) = 245-320, in increment of 5)  
72 cells: PLM-\*\*\*M-72F (\*\*\*) = 245-320, in increment of 5)  
72 cells: PLM-\*\*\*MA-72F (\*\*\*) = 245-320, in increment of 5)  
72 cells: PLM-\*\*\*MB-72F (\*\*\*) = 245-320, in increment of 5)  
66 cells: PLM-\*\*\*M-66 (\*\*\*) = 215-295, in increment of 5)  
66 cells: PLM-\*\*\*MA-66 (\*\*\*) = 215-295, in increment of 5)  
66 cells: PLM-\*\*\*MB-66 (\*\*\*) = 215-295, in increment of 5)  
66 cells: PLM-\*\*\*M-66F (\*\*\*) = 215-295, in increment of 5)  
66 cells: PLM-\*\*\*MA-66F (\*\*\*) = 215-295, in increment of 5)  
66 cells: PLM-\*\*\*MB-66F (\*\*\*) = 215-295, in increment of 5)  
60 cells: PLM-\*\*\*M-60 (\*\*\*) = 220-270, in increment of 5)  
60 cells: PLM-\*\*\*MA-60 (\*\*\*) = 220-270, in increment of 5)  
60 cells: PLM-\*\*\*MB-60 (\*\*\*) = 220-270, in increment of 5)  
60 cells: PLM-\*\*\*M-60F (\*\*\*) = 220-270, in increment of 5)  
60 cells: PLM-\*\*\*MA-60F (\*\*\*) = 220-270, in increment of 5)  
60 cells: PLM-\*\*\*MB-60F (\*\*\*) = 220-270, in increment of 5)  
54 cells: PLM-\*\*\*M-54 (\*\*\*) = 185-240, in increment of 5)  
54 cells: PLM-\*\*\*MA-54 (\*\*\*) = 185-240, in increment of 5)  
54 cells: PLM-\*\*\*MB-54 (\*\*\*) = 185-240, in increment of 5)  
54 cells: PLM-\*\*\*M-54F (\*\*\*) = 185-240, in increment of 5)  
54 cells: PLM-\*\*\*MA-54F (\*\*\*) = 185-240, in increment of 5)  
54 cells: PLM-\*\*\*MB-54F (\*\*\*) = 185-240, in increment of 5)  
48 cells: PLM-\*\*\*M-48 (\*\*\*) = 155-215, in increment of 5)  
48 cells: PLM-\*\*\*MA-48 (\*\*\*) = 155-215, in increment of 5)  
48 cells: PLM-\*\*\*MB-48 (\*\*\*) = 155-215, in increment of 5)  
48 cells: PLM-\*\*\*M-48F (\*\*\*) = 155-215, in increment of 5)  
48 cells: PLM-\*\*\*MA-48F (\*\*\*) = 155-215, in increment of 5)  
48 cells: PLM-\*\*\*MB-48F (\*\*\*) = 155-215, in increment of 5)  
36 cells: PLM-\*\*\*M-36 (\*\*\*) = 125-160, in increment of 5)  
36 cells: PLM-\*\*\*MA-36 (\*\*\*) = 125-160, in increment of 5)  
36 cells: PLM-\*\*\*MB-36 (\*\*\*) = 125-160, in increment of 5)  
36 cells: PLM-\*\*\*M-36 (\*\*\*) = 125-160, in increment of 5)  
36 cells: PLM-\*\*\*MA-36 (\*\*\*) = 125-160, in increment of 5)  
36 cells: PLM-\*\*\*MB-36 (\*\*\*) = 125-160, in increment of 5)  
24 cells: PLM-\*\*\*M-24 (\*\*\*) = 80-105, in increment of 5)  
24 cells: PLM-\*\*\*MA-24 (\*\*\*) = 80-105, in increment of 5)  
24 cells: PLM-\*\*\*MB-24 (\*\*\*) = 80-105, in increment of 5)



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24 cells: PLM-\*\*\*M-24F (\*\*\*) = 80-105, in increment of 5)  
24 cells: PLM-\*\*\*MA-24F (\*\*\*) = 80-105, in increment of 5)  
24 cells: PLM-\*\*\*MB-24F (\*\*\*) = 80-105, in increment of 5)

"A" means with black backsheet, black frame, black silica gel and black tape stick on internal wiring.

"B" means with black backsheet, black frame and black silica gel  
Types with suffix "F" means passed fire test.

Maximum system voltage: 1000V  
Fuse rating: 15A  
Application class: Class A  
Electrical protection class: Class II

## Module types:

**PV Modules with 5" Mono-crystalline Silicon Solar Cells:**

96 cells: PLM-\*\*\*M-96 (\*\*\*) = 230-280, in increment of 5)  
96 cells: PLM-\*\*\*MA-96 (\*\*\*) = 230-280, in increment of 5)  
96 cells: PLM-\*\*\*MB-96 (\*\*\*) = 230-280, in increment of 5)  
96 cells: PLM-\*\*\*M-96F (\*\*\*) = 230-280, in increment of 5)  
96 cells: PLM-\*\*\*MA-96F (\*\*\*) = 230-280, in increment of 5)  
96 cells: PLM-\*\*\*MB-96F (\*\*\*) = 230-280, in increment of 5)  
72 cells: PLM-\*\*\*M-72 (\*\*\*) = 160-210, in increment of 5)  
72 cells: PLM-\*\*\*MA-72 (\*\*\*) = 160-210, in increment of 5)  
72 cells: PLM-\*\*\*MB-72 (\*\*\*) = 160-210, in increment of 5)  
72 cells: PLM-\*\*\*M-72F (\*\*\*) = 160-210, in increment of 5)  
72 cells: PLM-\*\*\*MA-72F (\*\*\*) = 160-210, in increment of 5)  
72 cells: PLM-\*\*\*MB-72F (\*\*\*) = 160-210, in increment of 5)  
66 cells: PLM-\*\*\*M-66 (\*\*\*) = 145-190, in increment of 5)  
66 cells: PLM-\*\*\*MA-66 (\*\*\*) = 145-190, in increment of 5)  
66 cells: PLM-\*\*\*MB-66 (\*\*\*) = 145-190, in increment of 5)  
66 cells: PLM-\*\*\*M-66F (\*\*\*) = 145-190, in increment of 5)  
66 cells: PLM-\*\*\*MA-66F (\*\*\*) = 145-190, in increment of 5)  
66 cells: PLM-\*\*\*MB-66F (\*\*\*) = 145-190, in increment of 5)  
60 cells: PLM-\*\*\*M-60 (\*\*\*) = 130-175, in increment of 5)  
60 cells: PLM-\*\*\*MA-60 (\*\*\*) = 130-175, in increment of 5)  
60 cells: PLM-\*\*\*MB-60 (\*\*\*) = 130-175, in increment of 5)  
60 cells: PLM-\*\*\*M-60F (\*\*\*) = 130-175, in increment of 5)  
60 cells: PLM-\*\*\*MA-60F (\*\*\*) = 130-175, in increment of 5)  
60 cells: PLM-\*\*\*MB-60F (\*\*\*) = 130-175, in increment of 5)  
54 cells: PLM-\*\*\*M-54 (\*\*\*) = 120-155, in increment of 5)  
54 cells: PLM-\*\*\*MA-54 (\*\*\*) = 120-155, in increment of 5)



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54 cells: PLM-\*\*\*MB-54 (\*\*\*= 120-155, in increment of 5)  
54 cells: PLM-\*\*\*M-54F (\*\*\*= 120-155, in increment of 5)  
54 cells: PLM-\*\*\*MA-54F (\*\*\*= 120-155, in increment of 5)  
54 cells: PLM-\*\*\*MB-54F (\*\*\*= 120-155, in increment of 5)  
48 cells: PLM-\*\*\*M-48 (\*\*\*= 105-140, in increment of 5)  
48 cells: PLM-\*\*\*MA-48 (\*\*\*= 105-140, in increment of 5)  
48 cells: PLM-\*\*\*MB-48 (\*\*\*= 105-140, in increment of 5)  
48 cells: PLM-\*\*\*M-48F (\*\*\*= 105-140, in increment of 5)  
48 cells: PLM-\*\*\*MA-48F (\*\*\*= 105-140, in increment of 5)  
48 cells: PLM-\*\*\*MB-48F (\*\*\*= 105-140, in increment of 5)  
36 cells: PLM-\*\*\*M-36 (\*\*\* = 80-105, in increment of 5)  
36 cells: PLM-\*\*\*MA-36 (\*\*\* = 80-105, in increment of 5)  
36 cells: PLM-\*\*\*MB-36 (\*\*\* = 80-105, in increment of 5)  
36 cells: PLM-\*\*\*M-36F (\*\*\* = 80-105, in increment of 5)  
36 cells: PLM-\*\*\*MA-36F (\*\*\* = 80-105, in increment of 5)  
36 cells: PLM-\*\*\*MB-36F (\*\*\* = 80-105, in increment of 5)  
24 cells: PLM-\*\*\*M-24 (\*\*\* = 55-70, in increment of 5)  
24 cells: PLM-\*\*\*MA-24 (\*\*\* = 55-70, in increment of 5)  
24 cells: PLM-\*\*\*MB-24 (\*\*\* = 55-70, in increment of 5)  
24 cells: PLM-\*\*\*M-24F (\*\*\* = 55-70, in increment of 5)  
24 cells: PLM-\*\*\*MA-24F (\*\*\* = 55-70, in increment of 5)  
24 cells: PLM-\*\*\*MB-24F (\*\*\* = 55-70, in increment of 5)

"A" means with black backsheet, black frame, black silica gel and black tape stick on internal wiring.

"B" means with black backsheet, black frame and black silica gel

Types with suffix "F" means passed fire test.

Maximum system voltage:	1000V
Fuse rating:	15A
Application class:	Class A
Electrical protection class:	Class II



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## Module types:

**PV Modules with 6" Poly-crystalline Silicon Solar Cells:**

72 cells: PLM-\*\*\*P-72 (\*\*\*) = 235-320, in increment of 5)  
72 cells: PLM-\*\*\*PA-72 (\*\*\*) = 235-320, in increment of 5)  
72 cells: PLM-\*\*\*PB-72 (\*\*\*) = 235-320, in increment of 5)  
72 cells: PLM-\*\*\*P-72F (\*\*\*) = 235-320, in increment of 5)  
72 cells: PLM-\*\*\*PA-72F (\*\*\*) = 235-320, in increment of 5)  
72 cells: PLM-\*\*\*PB-72F (\*\*\*) = 235-320, in increment of 5)  
66 cells: PLM-\*\*\*P-72 (\*\*\*) = 225-295, in increment of 5)  
66 cells: PLM-\*\*\*PA-72 (\*\*\*) = 225-295, in increment of 5)  
66 cells: PLM-\*\*\*PB-72 (\*\*\*) = 225-295, in increment of 5)  
66 cells: PLM-\*\*\*P-72F (\*\*\*) = 225-295, in increment of 5)  
66 cells: PLM-\*\*\*PA-72F (\*\*\*) = 225-295, in increment of 5)  
66 cells: PLM-\*\*\*PB-72F (\*\*\*) = 225-295, in increment of 5)  
60 cells: PLM-\*\*\*P-60 (\*\*\*) = 195-265, in increment of 5)  
60 cells: PLM-\*\*\*PA-60 (\*\*\*) = 195-265, in increment of 5)  
60 cells: PLM-\*\*\*PB-60 (\*\*\*) = 195-265, in increment of 5)  
60 cells: PLM-\*\*\*P-60F (\*\*\*) = 195-265, in increment of 5)  
60 cells: PLM-\*\*\*PA-60F (\*\*\*) = 195-265, in increment of 5)  
60 cells: PLM-\*\*\*PB-60F (\*\*\*) = 195-265, in increment of 5)  
54 cells: PLM-\*\*\*P-54 (\*\*\*) = 180-240, in increment of 5)  
54 cells: PLM-\*\*\*PA-54 (\*\*\*) = 180-240, in increment of 5)  
54 cells: PLM-\*\*\*PB-54 (\*\*\*) = 180-240, in increment of 5)  
54 cells: PLM-\*\*\*P-54F (\*\*\*) = 180-240, in increment of 5)  
54 cells: PLM-\*\*\*PA-54F (\*\*\*) = 180-240, in increment of 5)  
54 cells: PLM-\*\*\*PB-54F (\*\*\*) = 180-240, in increment of 5)  
48 cells: PLM-\*\*\*P-48 (\*\*\*) = 165-215, in increment of 5)  
48 cells: PLM-\*\*\*PA-48 (\*\*\*) = 165-215, in increment of 5)  
48 cells: PLM-\*\*\*PB-48 (\*\*\*) = 165-215, in increment of 5)  
48 cells: PLM-\*\*\*P-48F (\*\*\*) = 165-215, in increment of 5)  
48 cells: PLM-\*\*\*PA-48F (\*\*\*) = 165-215, in increment of 5)  
48 cells: PLM-\*\*\*PB-48F (\*\*\*) = 165-215, in increment of 5)  
36 cells: PLM-\*\*\*P-36 (\*\*\*) = 125-160, in increment of 5)  
36 cells: PLM-\*\*\*PA-36 (\*\*\*) = 125-160, in increment of 5)  
36 cells: PLM-\*\*\*PB-36 (\*\*\*) = 125-160, in increment of 5)  
36 cells: PLM-\*\*\*P-36F (\*\*\*) = 125-160, in increment of 5)  
36 cells: PLM-\*\*\*PA-36F (\*\*\*) = 125-160, in increment of 5)  
36 cells: PLM-\*\*\*PB-36F (\*\*\*) = 125-160, in increment of 5)  
24 cells: PLM-\*\*\*P-24 (\*\*\*) = 80-105, in increment of 5)  
24 cells: PLM-\*\*\*PA-24 (\*\*\*) = 80-105, in increment of 5)  
24 cells: PLM-\*\*\*PB-24 (\*\*\*) = 80-105, in increment of 5)  
24 cells: PLM-\*\*\*P-24F (\*\*\*) = 80-105, in increment of 5)



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24 cells: PLM-\*\*\*PA-24F (\*\*\*) = 80-105, in increment of 5)

24 cells: PLM-\*\*\*PB-24F (\*\*\*) = 80-105, in increment of 5)

"A" means with black backsheet, black frame, black silica gel and black tape stick on internal wiring.

"B" means with black backsheet, black frame and black silica gel

Types with suffix "F" means passed fire test.

Maximum system voltage: 1000V

Fuse rating: 15A

Application class: Class A

Electrical protection class: Class II

Remark:

For detailed product information, please refer to CDF (Constructional Data Form) in Annex 1 of test report.



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