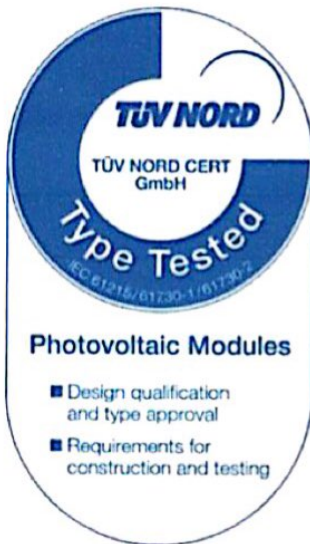


**TÜV NORD CERT GmbH**  
herewith declares that

**PT. Hanover Solar Indonesia**

Kompleks Hi-Tech, Jalan Budi Kemuliaan Blok VI, Lubuk Baja, Batam 29432  
Kepri Province, Indonesia

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**

Valid until: 2018-06-16

**Tested according to:** IEC / EN 61215:2005;  
IEC 61730-1:2004+A1:2011+A2:2013 / EN 61730-1:2007+A1:2012+A2:2013;  
IEC 61730-2:2004+A1:2011 / EN 61730-2:2007+A1:2012.

**Registered No.:** 44 780 16 406749 - 250

**Manufacturer:** see Annex 1

**Test Report No.:** 492010750.001

**File No.:** SHV09072/16



TÜV NORD CERT GmbH  
Certification Body  
Consumer Products

Essen, 2016-12-21

Please also pay attention to the information stated overleaf.

**Description of product(s):**

**Module types:**

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

72 cells: HS\*\*\*M-36D (\*\*\*) = 245-385, in increment of 5)  
 72 cells: HS\*\*\*MA-36D (\*\*\*) = 245-385, in increment of 5)  
 72 cells: HS\*\*\*MB-36D (\*\*\*) = 245-385, in increment of 5)  
 66 cells: HS\*\*\*M-33D (\*\*\*) = 215-350, in increment of 5)  
 66 cells: HS\*\*\*MA-33D (\*\*\*) = 215-350, in increment of 5)  
 66 cells: HS\*\*\*MB-33D (\*\*\*) = 215-350, in increment of 5)  
 60 cells: HS\*\*\*M-30D (\*\*\*) = 220-320, in increment of 5)  
 60 cells: HS\*\*\*MA-30D (\*\*\*) = 220-320, in increment of 5)  
 60 cells: HS\*\*\*MB-30D (\*\*\*) = 220-320, in increment of 5)  
 54 cells: HS\*\*\*M-27D (\*\*\*) = 185-285, in increment of 5)  
 54 cells: HS\*\*\*MA-27D (\*\*\*) = 185-285, in increment of 5)  
 54 cells: HS\*\*\*MB-27D (\*\*\*) = 185-285, in increment of 5)  
 48 cells: HS\*\*\*M-24D (\*\*\*) = 155-255, in increment of 5)  
 48 cells: HS\*\*\*MA-24D (\*\*\*) = 155-255, in increment of 5)  
 48 cells: HS\*\*\*MB-24D (\*\*\*) = 155-255, in increment of 5)  
 36 cells: HS\*\*\*M-18D (\*\*\*) = 125-190, in increment of 5)  
 36 cells: HS\*\*\*MA-18D (\*\*\*) = 125-190, in increment of 5)  
 36 cells: HS\*\*\*MB-18D (\*\*\*) = 125-190, in increment of 5)  
 24 cells: HS\*\*\*M-12D (\*\*\*) = 80-125, in increment of 5)  
 24 cells: HS\*\*\*MA-12D (\*\*\*) = 80-125, in increment of 5)  
 24 cells: HS\*\*\*MB-12D (\*\*\*) = 80-125, in increment of 5)  
 36 cells: HS\*\*\*M-18D (\*\*\*) = 5, 10, 20, 30, 40, 50, 60, 70, 80, 100, 120,  
 with sliced solar cell)  
 36 cells: HS\*\*\*MA-18D (\*\*\*) = 5, 10, 20, 30, 40, 50, 60, 70, 80, 100, 120,  
 with sliced solar cell)  
 36 cells: HS\*\*\*MB-18D (\*\*\*) = 5, 10, 20, 30, 40, 50, 60, 70, 80, 100, 120,  
 with sliced solar cell)

Maximum system voltage: 1000V  
 Fuse rating: 15A  
 Application class: Class A  
 Electrical protection class: Class II  
 Fire safety class: Class C  
 Rated mechanical load: 2400Pa/ 5400Pa, please refer to CDF for details.



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

## Module types:

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

96 cells: HS\*\*\*M-48D (\*\*\*= 230-280, in increment of 5)  
96 cells: HS\*\*\*MA-48D (\*\*\*= 230-280, in increment of 5)  
96 cells: HS\*\*\*MB-48D (\*\*\*= 230-280, in increment of 5)  
72 cells: HS\*\*\*M-36D (\*\*\*= 160-210, in increment of 5)  
72 cells: HS\*\*\*MA-36D (\*\*\*= 160-210, in increment of 5)  
72 cells: HS\*\*\*MB-36D (\*\*\*= 160-210, in increment of 5)  
66 cells: HS\*\*\*M-33D (\*\*\*= 145-190, in increment of 5)  
66 cells: HS\*\*\*MA-33D (\*\*\*= 145-190, in increment of 5)  
66 cells: HS\*\*\*MB-33D (\*\*\*= 145-190, in increment of 5)  
60 cells: HS\*\*\*M-30D (\*\*\*= 130-175, in increment of 5)  
60 cells: HS\*\*\*MA-30D (\*\*\*= 130-175, in increment of 5)  
60 cells: HS\*\*\*MB-30D (\*\*\*= 130-175, in increment of 5)  
54 cells: HS\*\*\*M-27D (\*\*\*= 120-155, in increment of 5)  
54 cells: HS\*\*\*MA-27D (\*\*\*= 120-155, in increment of 5)  
54 cells: HS\*\*\*MB-27D (\*\*\*= 120-155, in increment of 5)  
48 cells: HS\*\*\*M-24D (\*\*\*= 105-140, in increment of 5)  
48 cells: HS\*\*\*MA-24D (\*\*\*= 105-140, in increment of 5)  
48 cells: HS\*\*\*MB-24D (\*\*\*= 105-140, in increment of 5)  
36 cells: HS\*\*\*M-18D (\*\*= 80-105, in increment of 5)  
36 cells: HS\*\*\*MA-18D (\*\*= 80-105, in increment of 5)  
36 cells: HS\*\*\*MB-18D (\*\*= 80-105, in increment of 5)  
24 cells: HS\*\*\*M-12D (\*\*= 55-70, in increment of 5)  
24 cells: HS\*\*\*MA-12D (\*\*= 55-70, in increment of 5)  
24 cells: HS\*\*\*MB-12D (\*\*= 55-70, in increment of 5)  
36 cells: HS\*\*\*M-18D (\*\*= 5,10, 50, with sliced solar cell)  
36 cells: HS\*\*\*MA-18D (\*\*= 5,10, 50, with sliced solar cell)  
36 cells: HS\*\*\*MB-18D (\*\*= 5,10, 50, with sliced solar cell)

Maximum system voltage: 1000V  
Fuse rating: 15A  
Application class: Class A  
Electrical protection class: Class II  
Fire safety class: Class C  
Rated mechanical load: 2400Pa/ 5400Pa, please refer to CDF for details.

## Remark:

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