

CERTIFICATE

TÜV NORD CERT GmbH
herewith declares that

SOLARWATT GmbH
Maria-Reiche-Straße 2a
01109 Dresden, Sachsen,
Germany

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: 2022-07-12
Valid until: 2026-09-16

Certification program:	P12-VA-01 Rev. 17 09.20
Certification fundamental(s):	P12.4-AA-04 Rev. 00 (IEC 60068-2-68:1994 modified)
Remark:	Test Method Lc1; Dust concentration: $5 \pm 1.5 \text{g/m}^3$; Wind velocity: $20 \pm 2 \text{m/s}$; Test duration: 4 hours each side.
Registered No.:	44 780 22 406749 - 158
Manufacturer:	see Annex 1
Test Report No.:	492012098.001
File No.:	PVP01027/22P-22



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Essen, 2022-07-12

Please also pay attention to the information stated overleaf.

Description of product(s):

Module types: **Double Glass PV Modules with Mono-crystalline Silicon Half-Cut Bifacial Solar Cells (156.75mm to 166mm):**
120 cells: SOLARWATT Panel vision AM 3.0 (xxx Wp) pure (xxx=350-375, in step of 5)
120 cells: SOLARWATT Panel vision AM 3.0 (xxx Wp) style (xxx=350-375, in step of 5)
120 cells: SOLARWATT Panel vision AM 3.0 (xxx Wp) black (xxx=350-375, in step of 5)
Remark: The power parameter included in the module types only indicates maximum power output of front side.

Maximum system voltage: 1500V

Fuse rating: 25A

Application class: Class A

Electrical protection class: Class II

Module types: **Double Glass PV Modules with 182mm Mono-crystalline Silicon Half-Cut Bifacial Solar Cells:**
108 cells: SOLARWATT Panel vision AM 4.0 (xxx Wp) pure (xxx=395-410, in step of 5)
108 cells: SOLARWATT Panel vision AM 4.1 (xxx Wp) pure (xxx=395-410, in step of 5)
108 cells: SOLARWATT Panel vision AM 4.0 (xxx Wp) pure, low carbon (xxx=395-410, in step of 5)
108 cells: SOLARWATT Panel vision AM 4.1 (xxx Wp) pure, low carbon (xxx=395-410, in step of 5)
108 cells: SOLARWATT Panel vision AM 4.0 (xxx Wp) style (xxx=395-410, in step of 5)
108 cells: SOLARWATT Panel vision AM 4.1 (xxx Wp) style (xxx=395-410, in step of 5)
108 cells: SOLARWATT Panel vision AM 4.0 (xxx Wp) style, low carbon (xxx=395-410, in step of 5)
108 cells: SOLARWATT Panel vision AM 4.1 (xxx Wp) style, low carbon (xxx=395-410, in step of 5)
108 cells: SOLARWATT Panel vision AM 4.0 (xxx Wp) black (xxx=395-410, in step of 5)
108 cells: SOLARWATT Panel vision AM 4.1 (xxx Wp) black (xxx=395-410, in step of 5)
108 cells: SOLARWATT Panel vision AM 4.0 (xxx Wp) black, low carbon (xxx=395-410, in step of 5)



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108 cells: SOLARWATT Panel vision AM 4.1 (xxx Wp) black, low carbon (xxx=395-410, in step of 5)

Remark: The power parameter included in the module types only indicates maximum power output of front side.

Maximum system voltage:	1500V
Fuse rating:	30A
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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