

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: 2022-08-15

Valid until: 2025-11-22

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 22 406749 - 156R1M1
Manufacturer:	see Annex 1
Test Report No.:	492012096.002
File No.:	PVP01027/22P-33



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Essen, 2022-08-15

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
Electrical protection class:	Class II
Pollution degree:	1
Material group:	I
Design load (positive / negative):	(1) 3600Pa / 2400Pa (2) 5400Pa / 2400Pa
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:	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) 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
Electrical protection class:	Class II
Pollution degree:	1
Material group:	I
Design load (positive / negative):	(1) 3600Pa / 1600Pa (2) 5400Pa / 2400Pa
Safety factors:	1.5
Fire safety class:	Class A or C according to ANSI/UL 1703-2018 (as per ANSI/UL 790-2018)

Remark: For detailed information on classification of Fire Safety and Design load (positive / negative) for different combination of raw materials, please refer to CDF (Constructional Data Form) in Annex 1 of test report.



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