

CERTIFICATE

TÜV NORD CERT GmbH

herewith declares that

Inter Energy Europe Sp.z o.o.,
ul. Szańcowa 44, 01-458 Warszawa

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: 2022-06-14

Valid until: 2025-03-15

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 20 406749 - 201R1A1M1
Manufacturer:	see Annex 1
Test Report No.:	492011536.002
File No.:	PVP07008/22P

TÜV NORD CERT GmbH
Certification Body
Consumer Products

Essen, 2022-06-14

Please also pay attention to the information stated overleaf.

Manufacturer:

Manufacturer: **Coded by debtor no. 55403167**

Factory inspection report no.: 862010379.004

Remark:

Factory inspection is mandatory to be performed annually. Please refer to factory inspection report for detailed information.

Description of product(s):

Module types:	PV Modules with 6" Mono-crystalline Silicon Solar Cells: 72 cells: IE156x156/M/72/**W (**=310-375, in increment of 5) 60 cells: IE156x156/M/60/**W (**=260-310, in increment of 5) 54 cells: IE156x156/M/54/**W (**=235-270, in increment of 5) 48 cells: IE156x156/M/48/**W (**=205-240, in increment of 5) 42 cells: IE156x156/M/42/**W (**=185-210, in increment of 5) 36 cells: IE156x156/M/36/**W (**=160-180, in increment of 5) 30 cells: IE156x156/M/30/**W (**=135-150, in increment of 5)
Maximum system voltage:	1500V
Fuse rating:	15A
Electrical protection class:	Class II
Pollution degree:	1
Material group:	I or II
Design load (positive / negative):	5400Pa (positive) / 2400Pa (negative) or 3600Pa (positive) / 1600Pa (negative)
Safety factors:	1.5
Fire safety class:	Class C according to ANSI/UL 1703-2018 (per ANSI/UL 790-2018)

Module types:	PV Modules with 6" Mono-crystalline Silicon Solar Cells: 72 cells: IE158x158/M/72/**W (**=380-395, in increment of 5) 60 cells: IE158x158/M/60/**W (**=320-330, in increment of 5)
Maximum system voltage:	1500V
Fuse rating:	15A
Electrical protection class:	Class II
Pollution degree:	1
Material group:	I or II
Design load (positive / negative):	3600Pa (positive) / 1600Pa (negative)
Safety factors:	1.5
Fire safety class:	Class C according to ANSI/UL 1703-2018 (per ANSI/UL 790-2018)

Module types:	PV Modules with 6" Half Cut Mono-crystalline Silicon Solar Cells: 144 cells: IE158x158/M/72/H/**W (**=365-400, in increment of 5) 132 cells: IE158x158/M/66/H/**W (**=335-365, in increment of 5) 120 cells: IE158x158/M/60/H/**W (**=305-330, in increment of 5)
Maximum system voltage:	1500V
Fuse rating:	15A or 20A
Electrical protection class:	Class II
Pollution degree:	1
Material group:	I or II
Design load (positive / negative):	3600Pa (positive) / 1600Pa (negative)
Safety factors:	1.5
Fire safety class:	Class C according to ANSI/UL 1703-2018 (per ANSI/UL 790-2018)

Module types:	PV Modules with 6" Half Cut Mono-crystalline Silicon Solar Cells: 144 cells: IE158x158/M/72/MH/**W (**=390-410, in increment of 5) 132 cells: IE158x158/M/66/MH/**W (**=360-375, in increment of 5) 120 cells: IE158x158/M/60/MH/**W (**=325-340, in increment of 5)
Maximum system voltage:	1500V
Fuse rating:	15A or 20A
Electrical protection class:	Class II
Pollution degree:	1
Material group:	I or II
Design load (positive / negative):	3600Pa (positive) / 1600Pa (negative)
Safety factors:	1.5
Fire safety class:	Class C according to ANSI/UL 1703-2018 (per ANSI/UL 790-2018)

AktENZEICHEN: / File reference: PVP07008/22P

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Module types:	PV Modules with 6" Half Cut Mono-crystalline Silicon Solar Cells: 144 cells: IE166x166/M/72/MH/**W (**=420-455, in increment of 5) 132 cells: IE166x166/M/66/MH/**W (**=385-415, in increment of 5) 120 cells: IE166x166/M/60/MH/**W (**=350-380, in increment of 5)
Maximum system voltage:	1500V
Fuse rating:	20A
Electrical protection class:	Class II
Pollution degree:	1
Material group:	I or II
Design load (positive / negative):	3600Pa (positive) / 1600Pa (negative)
Safety factors:	1.5
Fire safety class:	Class C according to ANSI/UL 1703-2018 (per ANSI/UL 790-2018)

Module types:	PV Modules with 7" Half Cut Mono-crystalline Silicon Solar Cells: 156 cells: IE182x182/M/78/MH/**W (**=560-605, in increment of 5) 144 cells: IE182x182/M/72/MH/**W (**=515-555, in increment of 5) 132 cells: IE182x182/M/66/MH/**W (**=475-510, in increment of 5) 120 cells: IE182x182/M/60/MH/**W (**=430-465, in increment of 5) 108 cells: IE182x182/M/54/MH/**W (**=390-415, in increment of 5)
Maximum system voltage:	1500V
Fuse rating:	25A
Electrical protection class:	Class II
Pollution degree:	1
Material group:	I or II
Design load (positive / negative):	3600Pa (positive) / 1600Pa (negative)
Safety factors:	1.5
Fire safety class:	Class C according to ANSI/UL 1703-2018 (per ANSI/UL 790-2018)

Module types:	PV Modules with 8" Half Cut Mono-crystalline Silicon Solar Cells: 132 cells: IE210x210/M/66/MH/**W (**=630-670, in increment of 5) 120 cells: IE210x210/M/60/MH/**W (**=575-610, in increment of 5) 108 cells: IE210x210/M/54/MH/**W (**=515-545, in increment of 5) 96 cells: IE210x210/M/48/MH/**W (**=460-485, in increment of 5) 84 cells: IE210x210/M/42/MH/**W (**=400-425, in increment of 5) 110 cells: IE210x210/M/55/MH/**W (**=520-555, in increment of 5) 100 cells: IE210x210/M/50/MH/**W (**=475-505, in increment of 5) 90 cells: IE210x210/M/45/MH/**W (**=425-455, in increment of 5) 80 cells: IE210x210/M/40/MH/**W (**=380-400, in increment of 5)
Maximum system voltage:	1500V
Fuse rating:	30A
Electrical protection class:	Class II
Pollution degree:	1
Material group:	I or II
Design load (positive / negative):	3600Pa (positive) / 1600Pa (negative)
Safety factors:	1.5
Fire safety class:	Class C according to ANSI/UL 1703-2018 (per ANSI/UL 790-2018)

Remark:

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