

CERTIFICATE

TÜV NORD CERT GmbH
herewith declares that

Lovsun Solar Energy Group Co., Ltd
No. 556, West Changjiang Road,
Shushan District, Hefei City,
Anhui Province, China

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: 2022-04-29

Valid until: 2026-10-27

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 - 072
Manufacturer:	see Annex 1
Test Report No.:	492011996.001
File No.:	PVP04047/22P



Essen, 2022-04-29

TÜV NORD CERT GmbH
Certification Body
Consumer Products

Please also pay attention to the information stated overleaf.

Anlage 1 zum Zertifikat Nr.: / *Annex 1 to Certificate No.:* **44 780 22 406749 - 072**

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Aktenzeichen: / *File reference:* **PVP04047/22P**

2022-04-29

Manufacturer:

Manufacturer: Coded by debtor no. 55519477

Factory inspection report no.: 862010573.001

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 Half-cut 166mm Mono-crystalline Silicon Solar Cells: 144 cells: LRS166-xxxW (xxx=440-470, in steps of 5) 120 cells: LRS166-xxxW (xxx=365-390, in steps of 5) 72 cells: LRS166-xxxW (xxx=220-235, in steps of 5)
Maximum system voltage:	1500V
Fuse rating:	20A
Electrical protection class:	Class II
Pollution degree:	1
Material group:	I
Design load (positive / negative):	2400Pa / 1600Pa
Safety factors:	1.5
Fire safety class:	Class C according to ANSI/UL 1703-2018 (as per ANSI/UL 790-2018)

Module types:	PV Modules with Half-cut 182mm Mono-crystalline Silicon Solar Cells: 144 cells: LRS182-xxxW (xxx=520-550, in steps of 5) 132 cells: LRS182-xxxW (xxx=475-505, in steps of 5) 120 cells: LRS182-xxxW (xxx=435-455, in steps of 5) 108 cells: LRS182-xxxW (xxx=390-410, in steps of 5) 72 cells: LRS182-xxxW (xxx=260-275, in steps of 5)
Maximum system voltage:	1500V
Fuse rating:	25A
Electrical protection class:	Class II
Pollution degree:	1
Material group:	I
Design load (positive / negative):	2400Pa / 1600Pa
Safety factors:	1.5
Fire safety class:	Class C according to ANSI/UL 1703-2018 (as per ANSI/UL 790-2018)

Module types:	PV Modules with Half-cut 210mm Mono-crystalline Silicon Solar Cells: 132 cells: LRS210-xxxW (xxx=650-670, in steps of 5) 120 cells: LRS210-xxxW (xxx=590-610, in steps of 5) 110 cells: LRS210-xxxW (xxx=540-550, in steps of 5) 72 cells: LRS210-xxxW (xxx=355-365, in steps of 5)
Maximum system voltage:	1500V
Fuse rating:	30A
Electrical protection class:	Class II
Pollution degree:	1
Material group:	I
Design load (positive / negative):	2400Pa / 1600Pa
Safety factors:	1.5
Fire safety class:	Class C according to ANSI/UL 1703-2018 (as per ANSI/UL 790-2018)

Remark:

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