

CERTIFICATE

TÜV NORD CERT GmbH
herewith declares that

DualSun SAS
2 rue Marc Donadille
13013 Marseille
FRANCE

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: 2022-06-20

Valid until: 2027-10-19

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 - 219R1M1
Manufacturer:	see Annex 1
Test Report No.:	49201558.002
File No.:	PVP04060/22P



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Essen, 2022-06-20

Please also pay attention to the information stated overleaf.

Description of product(s):

Module types:

PV Modules with Segmented 6" PERC Mono-crystalline Silicon Solar Cells

432 cells: DSxxxM2-432SSW5 (xxx=445-480, in increment of 5)

432 cells: DSxxxG1-432SSW5 (xxx=445-480, in increment of 5)

432 cells: DSxxxG1-432SBB5 (xxx=445-480, in increment of 5)

432 cells: DSxxxG1-432SBW5 (xxx=445-480, in increment of 5)

432 cells: DSxxxM2-B432SSW5 (xxx=445-480, in increment of 5)

432 cells: DSxxxG1-B432SSW5 (xxx=445-480, in increment of 5)

432 cells: DSxxxG1-B432SBB5 (xxx=445-480, in increment of 5)

432 cells: DSxxxG1-B432SBW5 (xxx=445-480, in increment of 5)

408 cells: DSxxxM2-408SSW5 (xxx=395-455, in increment of 5)

408 cells: DSxxxG1-408SSW5 (xxx=420-455, in increment of 5)

408 cells: DSxxxG1-408SBB5 (xxx=420-455, in increment of 5)

408 cells: DSxxxG1-408SBW5 (xxx=420-455, in increment of 5)

408 cells: DSxxxM6-408SSW5 (xxx=460-500, in increment of 5)

408 cells: DSxxxM6-408SBB5 (xxx=460-500, in increment of 5)

408 cells: DSxxxM6-408SBW5 (xxx=460-500, in increment of 5)

408 cells: DSxxxM6-B408SSW5 (xxx=460-505, in increment of 5)

408 cells: DSxxxM6-B408SBB5 (xxx=460-500, in increment of 5)

408 cells: DSxxxM6-B408SBW5 (xxx=460-505, in increment of 5)

408 cells: DSxxxM2-408SBB5 (xxx=395-435, in increment of 5)

408 cells: DSxxxM2-408SBW5 (xxx=395-435, in increment of 5)

408 cells: DSxxxM2-B408SSW5 (xxx=395-455, in increment of 5)

408 cells: DSxxxG1-B408SSW5 (xxx=420-455, in increment of 5)

408 cells: DSxxxG1-B408SBB5 (xxx=420-455, in increment of 5)

408 cells: DSxxxG1-B408SBW5 (xxx=420-455, in increment of 5)

408 cells: DSxxxM2-B408SBB5 (xxx=395-435, in increment of 5)

408 cells: DSxxxM2-B408SBW5 (xxx=395-435, in increment of 5)

360 cells: DSxxxM2-360SSW5 (xxx=370-400, in increment of 5)

360 cells: DSxxxG1-360SSW5 (xxx=370-400, in increment of 5)

360 cells: DSxxxG1-360SBB5 (xxx=370-400, in increment of 5)

360 cells: DSxxxG1-360SBW5 (xxx=370-400, in increment of 5)

360 cells: DSxxxM2-B360SSW5 (xxx=370-400, in increment of 5)

360 cells: DSxxxG1-B360SSW5 (xxx=370-400, in increment of 5)

360 cells: DSxxxG1-B360SBB5 (xxx=370-400, in increment of 5)

360 cells: DSxxxG1-B360SBW5 (xxx=370-400, in increment of 5)

340 cells: DSxxxM2-340SSW5 (xxx=325-380, in increment of 5)

340 cells: DSxxxG1-340SSW5 (xxx=350-380, in increment of 5)



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340 cells: DSxxxG1-340SBB5 (xxx=350-380, in increment of 5)
340 cells: DSxxxG1-340SBW5 (xxx=350-380, in increment of 5)
340 cells: DSxxxM6-340SSW5 (xxx=380-415, in increment of 5)
340 cells: DSxxxM6-340SBB5 (xxx=380-415, in increment of 5)
340 cells: DSxxxM6-340SBW5 (xxx=380-415, in increment of 5)
340 cells: DSxxxM6-B340SSW5 (xxx=380-420, in increment of 5)
340 cells: DSxxxM6-B340SBB5 (xxx=380-415, in increment of 5)
340 cells: DSxxxM6-B340SBW5 (xxx=380-420, in increment of 5)
340 cells: DSxxxM2-340SBB5 (xxx=325-360, in increment of 5)
340 cells: DSxxxM2-340SBW5 (xxx=325-360, in increment of 5)
340 cells: DSxxxM2-B340SSW5 (xxx=325-380, in increment of 5)
340 cells: DSxxxG1-B340SSW5 (xxx=350-380, in increment of 5)
340 cells: DSxxxG1-B340SBB5 (xxx=350-380, in increment of 5)
340 cells: DSxxxG1-B340SBW5 (xxx=350-380, in increment of 5)
340 cells: DSxxxM2-B340SBB5 (xxx=325-360, in increment of 5)
340 cells: DSxxxM2-B340SBW5 (xxx=325-360, in increment of 5)

Maximum system voltage:	1500V
Fuse rating:	20A
Electrical protection class:	Class II
Pollution degree:	1
Material group:	III or II or I, refer to test report for details
Design load (positive / negative):	2400Pa / 2400Pa or 3600Pa / 1600Pa, refer to test report for details
Safety factors:	1.5
Fire safety class:	Class C according to ANSI/UL 1703-2018 (as per ANSI/UL 790-2018)



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Module types:

PV Modules with Segmented 8" PERC Mono-crystalline Silicon Solar Cells

408 cells: DSxxxM12-408SSW6 (xxx=635-655, in increment of 5)

408 cells: DSxxxM12-B408SSW6 (xxx=635-660, in increment of 5)

414 cells: DSxxxM12-414SSW6 (xxx=645-655, in increment of 5)

414 cells: DSxxxM12-B414SSW6 (xxx=645-670, in increment of 5)

390 cells: DSxxxM12-390SSW6 (xxx=605-625, in increment of 5)

390 cells: DSxxxM12-B390SSW6 (xxx=605-630, in increment of 5)

340 cells: DSxxxM12-340SSW6 (xxx=530-545, in increment of 5)

340 cells: DSxxxM12-B340SSW6 (xxx=530-550, in increment of 5)

345 cells: DSxxxM12-345SSW6 (xxx=535-550, in increment of 5)

345 cells: DSxxxM12-B345SSW6 (xxx=535-555, in increment of 5)

325 cells: DSxxxM12-325SSW6 (xxx=505-520, in increment of 5)

325 cells: DSxxxM12-B325SSW6 (xxx=505-525, in increment of 5)

320 cells: DSxxxM12-B320SSW7 xxx=425-445, in increment of 5)

320 cells: DSxxxM12-B320SBW7 (xxx=425-445, in increment of 5)

320 cells: DSxxxM12-B320SBB7 (xxx=420-440, in increment of 5)

305 cells: DSxxxM12-B305SSW7 (xxx=405-425, in increment of 5)

305 cells: DSxxxM12-B305SBW7 (xxx=405-425, in increment of 5)

305 cells: DSxxxM12-B305SBB7 (xxx=400-420, in increment of 5)

Maximum system voltage:	1500V
Fuse rating:	30A or 25A, refer to test report for details
Electrical protection class:	Class II
Pollution degree:	1
Material group:	III or II or I, refer to test report for details
Design load (positive / negative):	3600Pa / 1600Pa, refer to test report for details
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 test report.



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