

# CERTIFICATE

**TÜV NORD CERT GmbH**  
herewith declares that

**G-STAR PTE.LTD.**  
6 RAFFLES QUAY #14-06  
Singapore

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: 2023-09-19

Valid until: 2028-09-18

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 23 406749 - 306
Manufacturer:	see Annex 1
Test Report No.:	492012693.001
File No.:	PVP07006/23P-02



**TÜV NORD CERT GmbH**  
**Certification Body**  
**Consumer Products**

Essen, 2023-09-19

Please also pay attention to the information stated overleaf.

**Manufacturer:**

Manufacturer: **Ocean Energy Company Limited**  
998/106-109, 998/111 MOO.9, Bang Pla Subdistrict, Bang Phli District,  
Samut Prakan10540, Thailand

Factory inspection report no.: 862010811.001

**Remark:**

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



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**Consumer Products**

### Description of product(s):

Module types:	<b>Double glass PV Modules with half-cut 7" Half cut Solar Cells:</b> 156 cells: GSD7S78T-xxxWT (xxx = 610 to 640, in step of 5) 156 cells: GSD7S78T-xxxBT (xxx = 610 to 640, in step of 5) 144 cells: GSD7S72T-xxxWT (xxx = 565 to 590, in step of 5) 144 cells: GSD7S72T-xxxBT (xxx = 565 to 590, in step of 5) 132 cells: GSD7S66T-xxxWT (xxx = 515 to 540, in step of 5) 132 cells: GSD7S66T-xxxBT (xxx = 515 to 540, in step of 5) 120 cells: GSD7S60T-xxxWT (xxx = 470 to 490, in step of 5) 120 cells: GSD7S60T-xxxBT (xxx = 470 to 490, in step of 5) 108 cells: GSD7S54T-xxxWT (xxx= 425 to 440, in step of 5) 108 cells: GSD7S54T-xxxBT (xxx= 425 to 440, in step of 5)
Maximum system voltage:	1500V
Fuse rating:	30A
Electrical protection class:	Class II
Pollution degree:	1
Material group:	I
Design load (positive / negative):	3600Pa / 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.



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