

CERTIFICATE

TÜV NORD CERT GmbH
herewith declares that

ZES Solar Enerji Tedarik ve Ticaret A.Ş
Esentepe Mah. Büyükdere Cad. No:199
İç Kapı No:1 Şişli
İSTANBUL

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: 2024-12-06

Valid until: 2029-03-28

Certification program:	P12-VA-01 Rev. 17 09.20
Certification fundamental(s):	IEC 61215-1:2021 / EN IEC 61215-1:2021; IEC 61215-1-1:2021 / EN IEC 61215-1-1:2021; IEC 61215-2:2021 / EN IEC 61215-2:2021; IEC 61730-1:2023; IEC 61730-2:2023.
Registered No.:	44 780 24 406749 - 463
Manufacturer and factory(-ies):	See Annex 1
Test Report No.:	492013479.001
File No.:	PVP09065/24P



TÜV NORD CERT GmbH
Certification Body
Consumer Products



Essen, 2024-12-06

Please also pay attention to the information stated overleaf.

Anlage 1 zum Zertifikat Nr.: / Annex 1 to Certificate No.: 44 780 24 406749 - 463

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Aktenzeichen: / File reference: PVP09065/24P

2024-12-06

Manufacturer and factory(-ies):

Manufacturer: **ZES Solar Enerji Tedarik ve Ticaret A.Ş**
Esentepe Mah. Büyükdere Cad. No:199
İç Kapı No:1 Şişli/İSTANBUL

Factory: **Kivanc Enerji Uretim Anonim Sirketi**
Sahin Mahallesi Sait Polat Bulvarı No:396, Yenice/Tarsus/Mersin,
TÜRKİYE

Factory inspection report no.: 862010722.002

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:	Double Glass PV Modules with 182mm Half-cut n-type Bifacial Solar Cells: 144 cells: ZES-xxx-HC182TC-03 (xxx = 550-585, in increment of 5) 132 cells: ZES-xxx-HC182TC-03 (xxx = 505-535, in increment of 5) 120 cells: ZES-xxx-HC182TC-03 (xxx = 460-485, in increment of 5) 108 cells: ZES-xxx-HC182TC-03 (xxx = 415-435, in increment of 5) Remark: xxx indicates output power under STC from the front side only
Maximum system voltage:	1500V
Maximum overcurrent protection rating:	30A
Electrical protection class:	Class II
Pollution degree:	1
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) attached to test report with same file no.