

CERTIFICATE

TÜV NORD CERT GmbH
herewith declares that

HSA ENERJİ A.Ş.

OSB III. Kisim KecilikÖy OSB Mah., Mustafa Kemal Bulvari, No:15/1.,
45030 Yunusemre - Manisa
TURKEY

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: 2023-03-29
Valid until: 2028-03-28

Certification program:	P12-VA-01 Rev. 17 09.20
Certification fundamental(s):	P12.4-AA-04 Rev. 00 (IEC 60068-2-68:1994 modified)
Remark:	Test Method Lc2; Dust concentration: $5\pm 0.5\text{g/m}^3$; Wind velocity: $20\pm 2\text{m/s}$; Test duration: 4 hours each side.
Registered No.:	44 780 23 406749 - 084
Manufacturer:	see Annex 1
Test Report No.:	492012281.001
File No.:	PVP11065/22P-03


TÜV NORD CERT GmbH
Certification Body
Consumer Products



Essen, 2023-03-29

Please also pay attention to the information stated overleaf.

Manufacturer:

Manufacturer : **HSA ENERJİ A.Ş.**
OSB III. Kisim KecilikÖy OSB Mah., Mustafa Kemal Bulvari, No:15/1.,
45030 Yunusemre - Manisa, TURKEY

Factory inspection report no.: 862010735.001

Remark:

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



TÜV NORD CERT GmbH
Certification Body
Consumer Products

Description of product(s):

Module types:	PV Modules with 182mm Mono-crystalline Silicon Half-cut Solar Cells: 72 cells: HSA72M10MF-xxx (xxx = 530-560, in increment of 5) 66 cells: HSA66M10MF-xxx (xxx = 485-510, in increment of 5) 60 cells: HSA60M10MF-xxx (xxx = 445-465, in increment of 5) 54 cells: HSA60M10MF-xxx (xxx = 400-420, in increment of 5)
Maximum system voltage:	1500V
Fuse rating:	25A
Application class:	Class A
Electrical protection class:	Class II

Remark:

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



TÜV NORD CERT GmbH
Certification Body
Consumer Products