

CERTIFICATE

TÜV NORD CERT GmbH

herewith declares that

Kalyon Güneş Teknolojileri Üretim A.Ş.

Başkent Organize Sanayi Bölgesi Şadi Türk Bulvarı No:23

Malıköy Sincan, Ankara, 06909

Turkey

is authorized to provide the product mentioned below with the mark as illustrated:

Description of product (details see Annex 2):

Double Glass PV Modules with 6" Half-cut Mono P-type Bifacial Solar Cells



Valid from: 2020-09-30

Valid until: 2025-09-29

Tested according to: P12.4-AA-02 Rev. 00
(IEC TS 62804-1:2015 modified)

Remark: Test temperature: 85°C;
Relative humidity: 85%;
Test duration: 192 hours.

Registered No.: 44 780 20 406749 - 199

Manufacturer: see Annex 1

Test Report No.: 492011468.001

File No.: SHV12085/19-01



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Certification Body
Consumer Products



Essen, 2020-09-30

Please also pay attention to the information stated overleaf.

Manufacturer:

Manufacturer 1:

Kalyon Güneş Teknolojileri Üretim A.Ş.

Başkent Organize Sanayi Bölgesi Şadi Türk Bulvarı No:23

Malıköy Sincan, Ankara, 06909, Turkey

Factory inspection report no.:

862010507.001

Manufacturer 2:

Hunan Red Solar New Energy Science and Technology Co., Ltd.

No. 586, West Tongzipo Road, High-tech Development Zone

Changsha City, Hunan Province, 410205, P.R. China

Factory inspection report no.:

862010414.002

Remark:

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



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Description of product(s):

Module types:	Double Glass PV Modules with 6" Half-cut Mono P-type Bifacial Solar Cells: 144 cells: KY-xxxB-72H-GF (xxx = 380-405, in increment of 5) 120 cells: KY-xxxB-60H-GF (xxx = 315-335, in increment of 5)
Maximum system voltage:	1500V
Fuse rating:	15A
Application class:	Class A
Electrical protection class:	Class II
Albedo	20%
Bifaciality coefficient (φ):	70% \pm 5%

Remark:

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

Bifaciality coefficient (φ) = ($I_{sc_{rear}} / I_{sc_{front}}$) or ($P_{mpp_{rear}} / P_{mpp_{front}}$), whichever is smaller.

The tolerance of bifaciality coefficient (φ) is claimed by client.



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