

# CERTIFICATE

**TÜV NORD CERT GmbH**  
herewith declares that

**Brak-Bet PV Sp. z o.o**  
UL. Mrozna 8  
33-102 Tarnow, Poland

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

**Description of product (details see Annex 2):**

**PV Modules with 6" Mono-crystalline Silicon Solar Cells**

**PV Modules with 6" Half Cut Mono-crystalline Silicon Solar Cells**



Valid from: 2021-02-03

Valid until: 2022-12-10

Tested according to: 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 21 406749 - 020  
Manufacturer: see Annex 1  
Test Report No.: 492011591.001  
File No.: PVP12018/20P



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



Essen, 2021-02-03

Please also pay attention to the information stated overleaf.

Anlage 1 zum Zertifikat Nr.: / Annex 1 to Certificate No.: 44 780 21 406749 - 020

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Aktenzeichen: / File reference: PVP12018/20P

2021-02-03

**Manufacturer:**

Manufacturer 1: **Coded by debtor no. 55484240**

Factory inspection report no.: 862010118.009

Manufacturer 2: **Coded by debtor no. 55484241**

Factory inspection report no.: 862010221.006

**Remark:**

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

A handwritten signature in blue ink, appearing to read "Robert Aliao".

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**Consumer Products**

**Description of product(s):**

Module types:	<b>PV Modules with 6" Mono-crystalline Silicon Solar Cells:</b> 72 cells: BB ECO-xxx/72 (xxx=320-380, in increment of 5) 60 cells: BB ECO-xxx (xxx=270-315, in increment of 5)
Maximum system voltage:	1500V
Fuse rating:	15A
Electrical protection class:	Class II
Pollution degree:	1
Material group:	I
Design load (positive / negative):	1600Pa / 1600Pa
Safety factors:	1.5
Fire safety class:	Class C according to ANSI/UL 1703-2018 (as per ANSI/UL 790-2018)

Module types:	<b>PV Modules with 6" Half Cut Mono-crystalline Silicon Solar Cells:</b> 144 half cut cells: BB ECO-xxx/144-E2 (xxx=425-475, in increment of 5) 120 half cut cells: BB ECO-xxx/120-E2 (xxx=355-395, in increment of 5) 144 half cut cells: BB ECO-xxx (xxx=390-435, in increment of 5) 120 half cut cells: BB ECO-xxx (xxx=325-360, in increment of 5)
Maximum system voltage:	1500V
Fuse rating:	20A
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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