

# EUROPEAN PREMIUM PV MODULES

**BRUK-BET®**  
**FOTOWOLTAIKA**

**PERFECT** ***EDGE***  
***PRO***

**PEM.WB-430 HALF-CELL**



100% ELECTROLUMINESCENCE INSPECTION



POSITIVE POWER TOLERANCE



ANTIREFLECTIVE COATING



HIGH FILL FACTOR



HIGH RESISTANCE TO STATIC LOADS



EXTREME HAIL ENDURANCE



RESISTANCE TO PID EFFECT

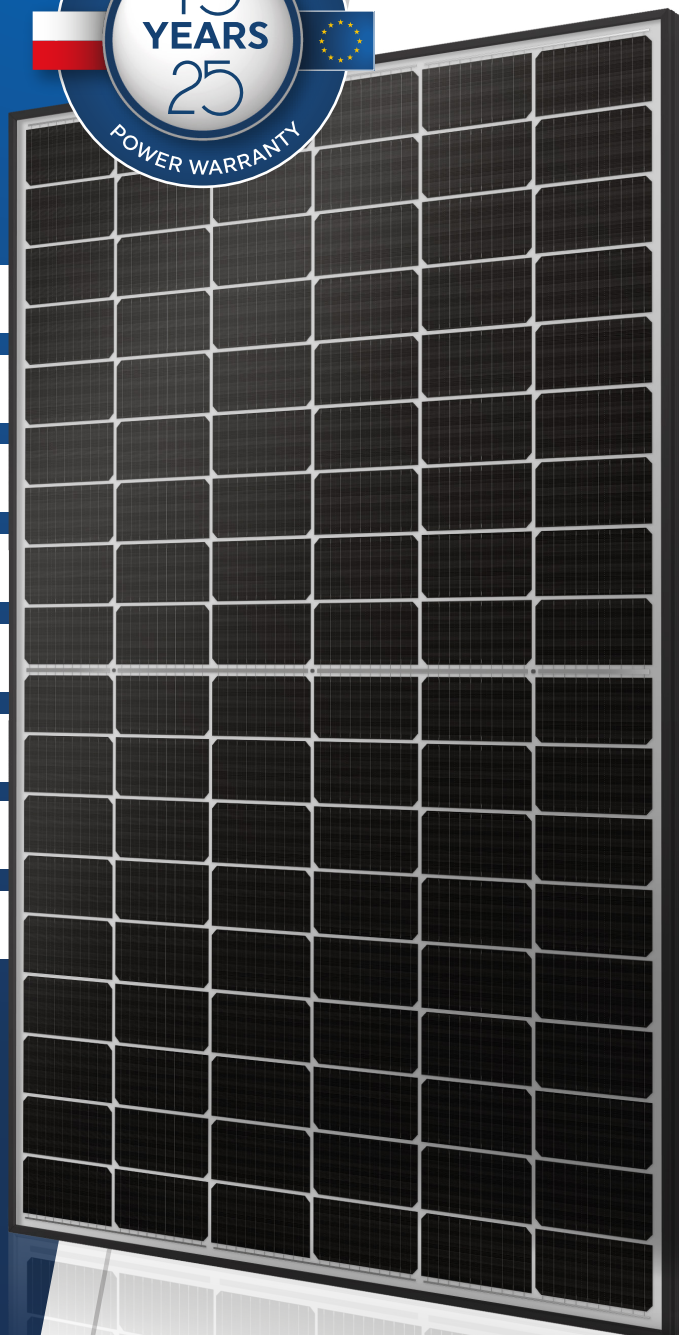


RESISTANCE TO DYNAMIC LOADS

**BRUK-BET®**  
**FOTOWOLTAIKA**

MANUFACTURING  
SINCE

**2011**



# PEM.WB-430 Technical specifications

| ELECTRICAL PARAMETERS STC | PEM.WB-430 |
|---------------------------|------------|
| Nominal power [Wp]        | 430        |
| Short-circuit current [A] | 13,96      |
| Nominal current [A]       | 13,38      |
| Open circuit voltage [V]  | 38,05      |
| Nominal voltage [V]       | 32,15      |
| Efficiency [%]            | 21,78      |

STC: Irradiance 1000 W/m², Air mass 1.5 AM, Cells temperature 25 °C, Measurement tolerance STC ± 2 %.

| ELECTRICAL PARAMETERS LIC | PEM.WB-430 |
|---------------------------|------------|
| Nominal power [Wp]        | 82,09      |
| Short-circuit current [A] | 2,75       |
| Nominal current [A]       | 2,60       |
| Open circuit voltage [V]  | 35,44      |
| Nominal voltage [V]       | 31,59      |

LIC: Irradiance 200 W/m², Air mass 1.5 AM, Cells temperature 25 °C, Measurement tolerance LIC ± 5 %.

| APPLICATIONS PARAMETERS    | PEM.WB-430    |
|----------------------------|---------------|
| Power tolerance            | 0/+1%         |
| Safety class               | II            |
| Maximum system voltage     | 1000/1500 VDC |
| Operating temperature      | -40 / +85 °C  |
| Reverse current protection | 25 A          |

| TEMPERATURE PARAMETERS     | PEM.WB-430  |
|----------------------------|-------------|
| Current temperature coeff. | 0,046 %/°C  |
| Voltage temperature coeff. | -0,259 %/°C |
| Power temperature coeff.   | -0,324 %/°C |

| MECHANICAL PARAMETERS | PEM.WB-430 |
|-----------------------|------------|
| Length [mm]           | 1735       |
| Width [mm]            | 1138       |
| Height [mm]           | 35/40      |
| Weight [kg]           | 21,5       |

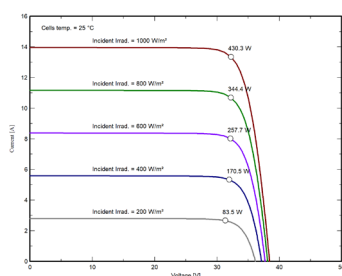
| COMPOSITION  | PEM.WB-430                |
|--------------|---------------------------|
| Front glass  | 3,2 mm, Tempered          |
| Encapsulant  | EVA film                  |
| Frame        | Anodised aluminium, Black |
| Cells        | Monocrystalline, Class A  |
| Quantity     | 108                       |
| Junction box | IP68, 3 by-pass diodes    |
| Cables       | 2 x 1100 mm, φ = 4 mm²    |
| Connectors   | Sunter PV-ZH202B, IP68    |

| ENDURANCE PARAMETERS          | PEM.WB-430           |
|-------------------------------|----------------------|
| Design Load (Test Load) Front | 5400 Pa              |
| Design Load (Test Load) Rear  | 2400 Pa              |
| Hail Endurance                | φ=25 mm, V=82,8 km/h |

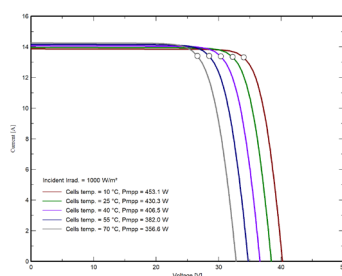
| PACKING        | PEM.WB-430                |
|----------------|---------------------------|
| Packing system | Carton 1,8 x 1,2 x 1,25 m |
| Quantity       | 31/26 Pcs/Palette*        |
| Transport      | 28 Palettes/TIR           |

\* depending on the height of the frame

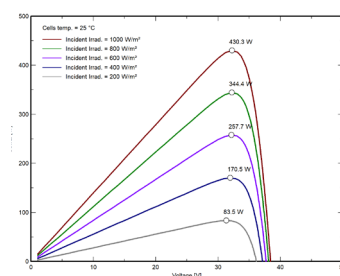
## CURRENT/VOLTAGE



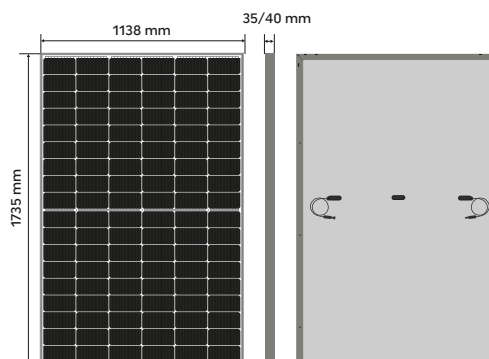
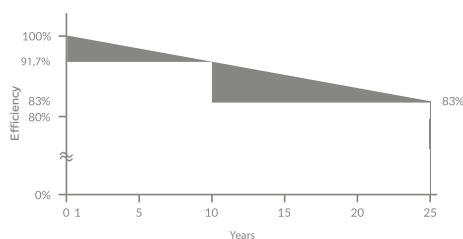
## CURRENT/VOLTAGE



## POWER/VOLTAGE



## LINEAR POWER WARRANTY



Bruk-Bet Fotowoltaika reserves the right to make changes without notice. This data card complies with the requirements of the standard EN50380.

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