

# BRUK-BET<sup>®</sup> FOTOWOLTAIKA PEM.TB-405

PERFECT *EDGE*  
PRO

## PEM.TB-405 Half-CELL



15 YEARS PRODUCT WARRANTY



25 YEARS LINEAR PERFORMANCE WARRANTY



100% ELECTROLUMINESCENCE INSPECTION



POSITIVE POWER TOLERANCE



ANTIREFLECTIVE COATING



SNOW LOAD UP TO 5520 Pa



RESISTANCE TO A GRAY BALL WITH A DIAMETER OF 55 mm  
FALLING DOWN AT 122 km/h



WIND LOAD UP TO 2520 Pa



RESISTANCE TO PID EFFECT



HIGH FILL FACTOR



RESISTANCE TO DYNAMIC LOADS



BRUK-BET<sup>®</sup>  
FOTOWOLTAIKA  
MANUFACTURING  
SINCE  
2011

CE

100%  
MADE IN POLAND

ELECTRICAL PARAMETERS STC	PEM.TB-405
Nominal power [Wp]	405
Short-circuit current [A]	13,65
Nominal current [A]	13,10
Open circuit voltage [V]	36,84
Nominal voltage [V]	30,92
Efficiency [%]	20,51

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

ELECTRICAL PARAMETERS LIC	PEM.TB-405
Nominal power [Wp]	77,4
Short-circuit current [A]	2,69
Nominal current [A]	2,55
Open circuit voltage [V]	34,31
Nominal voltage [V]	30,35

LIC : Irradiance 200 W/m<sup>2</sup>, Air mass 1.5 AM, Cells temperature 25 °C, Measurement tolerance LIC ± 5 %.

APPLICATIONS PARAMETERS	PEM.TB-405
Power tolerance	-0/+1 %
Safety class	II
Maximum system voltage	1000/1500 VDC
Operating temperature	-40 / +85 °C
Reverse current protection	22 A

TEMPERATURE PARAMETERS	PEM.TB-405
Current temperature coeff.	0,040 %/°C
Voltage temperature coeff.	-0,255 %/°C
Power temperature coeff.	-0,328 %/°C

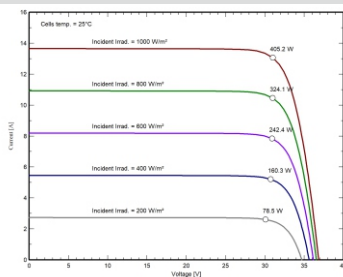
MECHANICAL PARAMETERS	PEM.TB-405
Length [mm]	1735
Width [mm]	1138
Height [mm]	40
Weight [mm]	21

COMPOSITION	PEM.TB-405
Front glass	3,2 mm, Tempered
Encapsulant	EVA film
Frame	Anodised aluminium, Black
Cells	Monocrystalline
Quantity	108
Junction box	IP68, 3 by-pass diodes
Cables	2 x 1100 mm, φ = 4 mm <sup>2</sup>
Connectors	Sunter PV-ZH202B, IP68

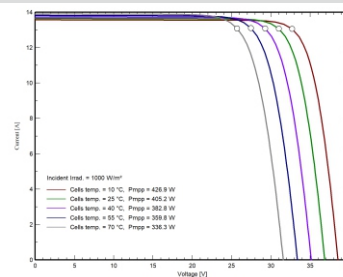
ENDURANCE PARAMETERS	PEM.TB-405
Snow Load (Test Load) Front	5520 Pa
Wind Load (Test Load) Rear	2520 Pa
Hail Endurance	φ=55 mm, V=122 km/h

PACKING	PEM.TB-405
Packing system	Carton 1,8 x 1,2 x 1,25 m
Quantity	26 Pcs/Palette
Transport	28 Paletts/TIR

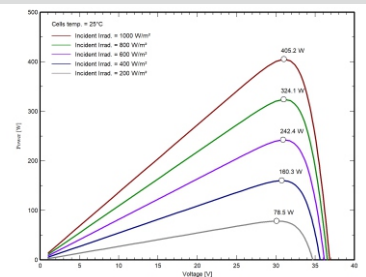
### CURRENT/VOLTAGE



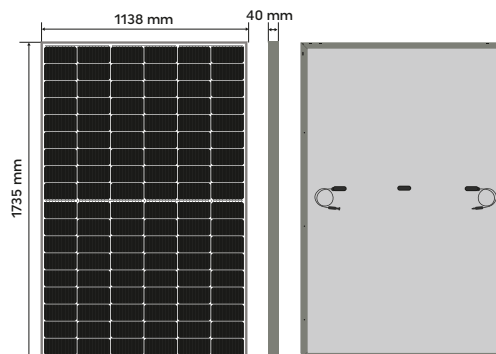
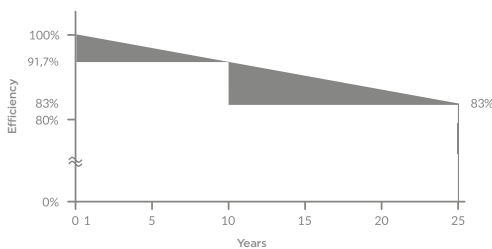
### CURRENT/VOLTAGE



### POWER/VOLTAGE



### LINEAR POWER WARRANTY



Space for Partners data: