

PEM.WS-445

PERFECT *EDGE*
MAX

PEM.WS-445 Half-CELL



15 YEARS PRODUCT WARRANTY



25 YEARS LINEAR PERFORMANCE WARRANTY



100% ELECTROLUMINESCENCE INSPECTION



POSITIVE POWER TOLERANCE



ANTIREFLECTIVE COATING



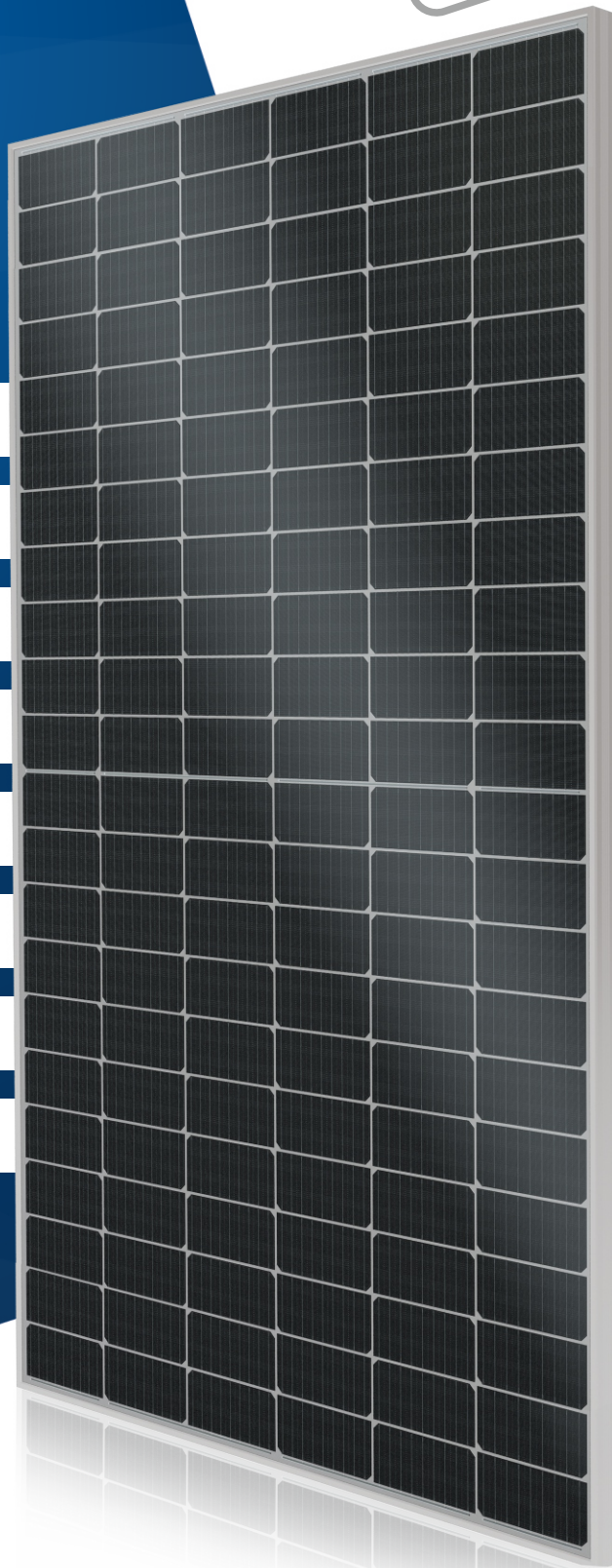
SNOW LOAD UP TO 8100 Pa



EXTREME HAIL ENDURANCE



WIND LOAD UP TO 5400 Pa



ELECTRICAL PARAMETERS STC	PEM.WS-445
Nominal power [Wp]	445
Short-circuit current [A]	11,21
Nominal current [A]	10,77
Open circuit voltage [V]	49,45
Nominal voltage [V]	41,32
Efficiency [%]	20,4

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

ELECTRICAL PARAMETERS NOMT	PEM.WS-445
Nominal power [Wp]	334,6
Short-circuit current [A]	9,04
Nominal current [A]	8,65
Open circuit voltage [V]	46,65
Nominal voltage [V]	38,69

NOMT: Irradiance 800 W/m², Air mass 1.5 AM, Ambient temperature 20 °C, Wind speed 1 m/s. Measurement tolerance NOMT ± 5 %.

APPLICATION PARAMETERS	PEM.WS-445
Power tolerance	0/+4,99 Wp
Safety class	II
Maximum system voltage	1000/1500 VDC
Operating temperature	-40 / +85 °C
Reverse current protection	22 A

TEMPERATURE PARAMETERS	PEM.WS-445
NOMT (800 W/m ² , 1.5 AM, 20 °C, 1 m/s)	42.7 °C
Current temperature coeff.	0,045 %/°C
Voltage temperature coeff.	-0,276 %/°C
Power temperature coeff.	-0,36 %/°C

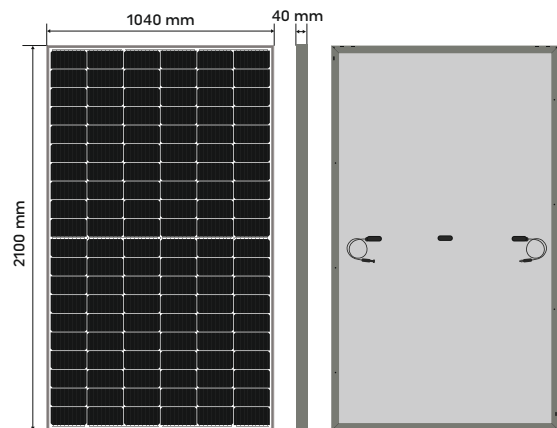
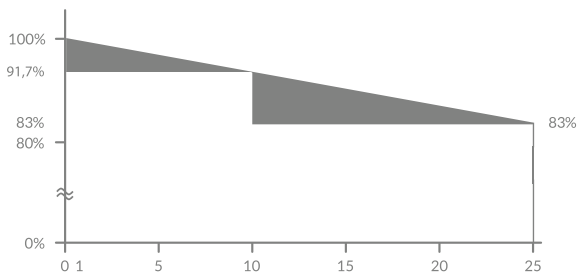
MECHANICAL PARAMETERS	PEM.WS-445
Length [mm]	2100
Width [mm]	1040
Height [mm]	40
Weight [kg]	24

COMPOSITION	PEM.WS-445
Front glass	3,2 mm, Tempered
Encapsulant	EVA film
Frame	Anodised aluminium, Silver
Cells	Monocrystalline
Quantity	144
Junction box	IP67, 3 by-pass diodes
Cables	2 x 1100 mm, φ = 4 mm ²
Connectors	MC4 compatible, IP68

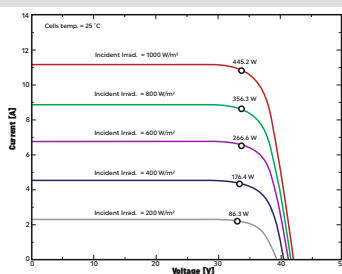
ENDURANCE PARAMETERS	PEM.WS-445
Maximum Mechanical Load	8100 Pa
Maximum Wind Load	5400 Pa
Hail Endurance	φ=55 mm, V=122 km/h

PACKING	PEM.WS-445
Packing system	Cartoon 2,15 x 1,25 x 1,2 m
Quantity	26 Pcs/Palette
Transport	24 Palettes/TIR

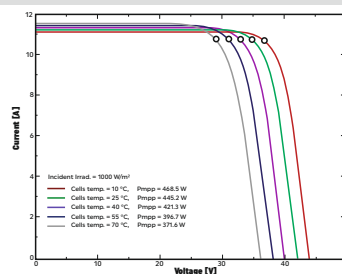
LINEAR POWER WARRANTY



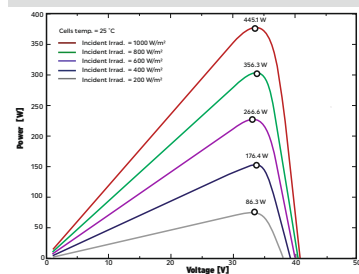
CURRENT/VOLTAGE



CURRENT/VOLTAGE



POWER/VOLTAGE



BRUK-BET FOTOWOLTAIKA reserves the right to change specifications without notice. This datasheet complies with requirements of EN 50380.