

# PEM.BB-440

**PERFECT** *EDGE*  
*MAX*

**PEM.BB-440 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.BB-440
Nominal power [Wp]	440
Short-circuit current [A]	11,18
Nominal current [A]	10,70
Open circuit voltage [V]	49,30
Nominal voltage [V]	41,15
Efficiency [%]	20,16

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

ELECTRICAL PARAMETERS NOMT	PEM.BB-440
Nominal power [Wp]	331,1
Short-circuit current [A]	9,02
Nominal current [A]	8,59
Open circuit voltage [V]	46,51
Nominal voltage [V]	38,53

NOMT: Irradiance 800 W/m<sup>2</sup>, Air mass 1.5 AM, Ambient temperature 20 °C, Wind speed 1 m/s. Measurement tolerance NOMT ± 5 %.

APPLICATION PARAMETERS	PEM.BB-440
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.BB-440
NOMT (800 W/m <sup>2</sup> , 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

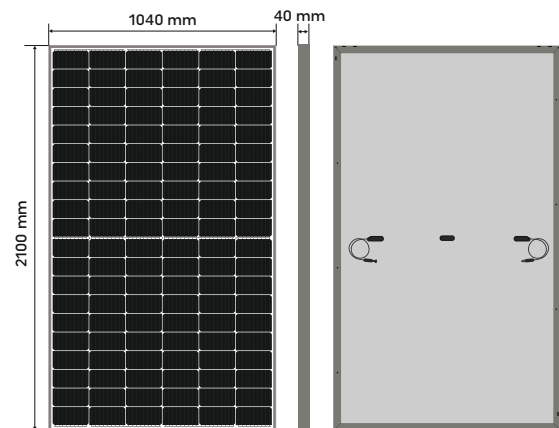
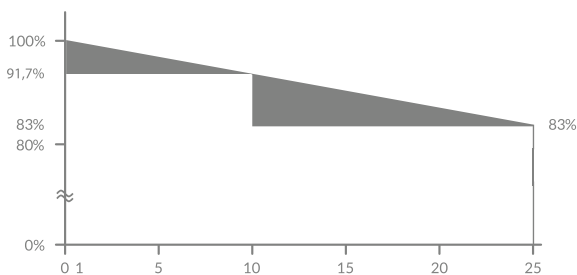
MECHANICAL PARAMETERS	PEM.BB-440
Length [mm]	2100
Width [mm]	1040
Height [mm]	40
Weight [kg]	24

COMPOSITION	PEM.BB-440
Front glass	3,2 mm, Tempered
Encapsulant	EVA film
Frame	Anodised aluminium, Black
Cells	Monocrystalline
Quantity	144
Junction box	IP67, 3 by-pass diodes
Cables	2 x 1100 mm, φ = 4 mm <sup>2</sup>
Connectors	MC4 compatible, IP68

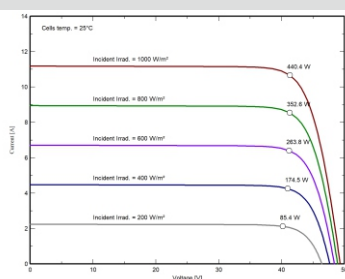
ENDURANCE PARAMETERS	PEM.BB-440
Maximum Mechanical Load	8100 Pa
Maximum Wind Load	5400 Pa
Hail Endurance	φ=55 mm, V=122 km/h

PAKOWANIE	PEM.BB-440
Packing system	Cartoon 2,15 x 1,25 x 1,2 m
Quantity	26 Pcs/Palette
Transport	24 Palettes/TIR

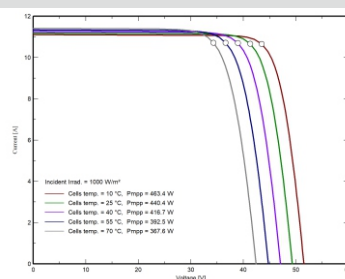
## LINEAR POWER WARRANTY



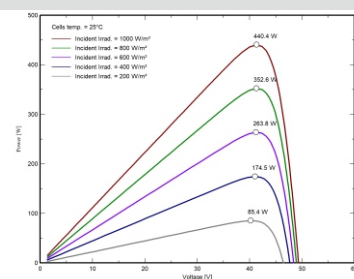
## CURRENT/VOLTAGE



## CURRENT/VOLTAGE



## POWER/VOLTAGE



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