



## BEM-290



12 YEARS PRODUCT WARRANTY



25 YEARS LINEAR PERFORMANCE WARRANTY



100% ELECTROLUMINESCENCE INSPECTION



GUARANTEED POSITIVE POWER TOLERANCE



IP68 JUNCTION BOX AVAILABLE



INNOVATIVE SOLUTION: ANTI-REFLECTIVE COATING FOR HIGH SUNLIGHT ABSORPTION



HIGH QUALITY COMPONENTS



PACKING SYSTEM TO AVOID MICROCRACKS



5 BUSBARS

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### CERTIFICATES:



Ammonia NH<sub>3</sub> resistance certificate

Salt water mist resistance certificate

Fire resistance certificate

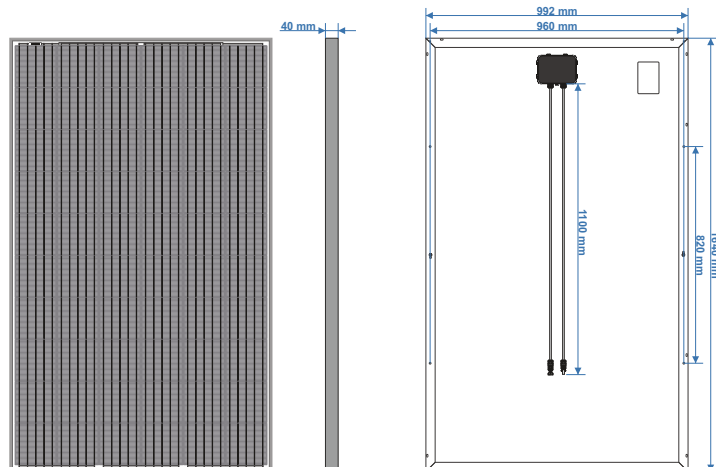
# TECHNICAL SPECIFICATIONS **BEM-290**

ELECTRICAL PARAMETERS	STC
Maximum power [Wp]	290
Short circuit current [A]	9,35
Open circuit voltage [V]	38,88
Maximum power current [A]	8,90
Maximum power voltage [V]	32,59
Efficiency [%]	17,83

TEMPERATURE PARAMETERS	
NOCT (800 W/m <sup>2</sup> , 1 m/s, AM 1.5, 20°C)	42±2 °C
Temperature coefficient current	0,027 %/C
Temperature coefficient voltage	-0,29 %/C
Temperature coefficient power	-0,40 %/C

PHYSICAL PARAMETERS	
Length [mm]	1640
Width [mm]	992
Thickness [mm]	40
Weight [kg]	18,1

COMPOSITION	
Front glass	Tempered 3,2 mm
Encapsulant	EVA film
Backsheet	Multilayer polyester
Frame	Anodised aluminium
Cells	Monocrystalline 5 BB
Cell dimensions [mm]	156,75 x 156,75
Number of cells [pcs.]	60(6x10)
JB protection class	IP67
Bypass diodes	3
Cables	1100 mm, 4 mm <sup>2</sup>
Connectors	MC4 compatible



## Note:

STC values measured under standard test conditions (STC): irradiance 1000 W/m<sup>2</sup>, spectrum 1,5 AM, cell temperature 25 °C

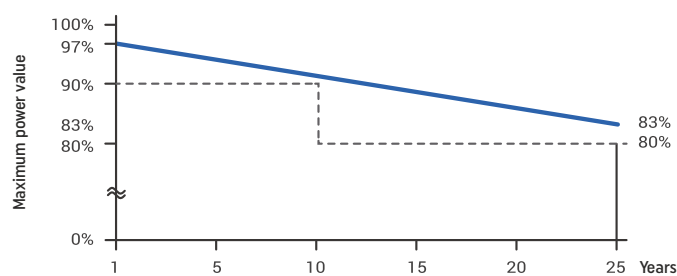
NOCT values measured under test conditions: 800 W/m<sup>2</sup>, spectrum AM 1.5, ambient temperature 20 °C, wind speed 1 m/s.

Measurement tolerance STC ± 2%; NOCT ± 5%.

APPLICATION PARAMETERS	
Power tolerance	0/+4,99 Wp
Application class	A
Safety class	II
Maximum system voltage	1000 VDC
Maximum mechanical load	5400 Pa
Maximum wind load	2400 Pa
Operating temperature	-40 /+85 °C
Reverse current protection	25 A
Salt mist corrosion test	IEC 61701
Ammonia corrosion test	IEC 62716
Hail test	V=23 m/s, φ=25 mm

PACKING	
Packing method	Cardboard box 1,7x1,2m
Quantity	26 pieces/pallet
Transport	30 pallets/truck

## Bruk-Bet Solar linear power warranty



— Additional warranty provided by Bruk-Bet Solar  
 - - - Typical market warranty

## I-V CURVE

