



# BEM-290



12 year product warranty



25 year linear performance warranty



100 % electroluminescence inspection



Guaranteed positive power tolerance



Maximum 8000 Pa snow load



IP68 junction box available,  
long-term weather endurance



Innovative solution: anti-reflective coating for high  
sunlight absorption



Potential Induced Degradation FREE



High quality components



Packing system to avoid  
micro cracks



Light Induced Degradation FREE



4 busbars



Ammonia  
resistance certificate

Salt water mist  
resistance certificate

Fire resistance certificate



# TECHNICAL SPECIFICATIONS **BEM-290**

## Electrical Characteristics

|   |                 |
|---|-----------------|
| Maximum power [Pmax]                              | 290 Wp          |
| Cells   | Monocrystalline |
| Nr of cells                                       | 60              |
| Short circuit current [Isc]                       | 9,75 A          |
| Open circuit voltage [Voc]                        | 38,40 V         |
| Maximum power current [Imax]                      | 9,15 A          |
| Maximum power voltage [Vmax]                      | 31,75 V         |
| Module efficiency                                 | 17,83 %         |
| Maximum system voltage                            | 1000 VDC        |
| Tolerance   | 0 +4,99 Wp      |
| Temperature coefficient current TcI               | 0,03 %/°C       |
| Temperature coefficient voltage TcV               | -0,31 %/°C      |
| Power temperature coefficient TcP                 | -0,39 %/°C      |
| NOCT ( 800 W/m <sup>2</sup> , 20°C, AM 1.5, 1m/s) | 43±2 °C         |

## Qualification test parameters

|                   |         |
|-------------------|---------|
| Maximum load*     | 5400 Pa |
| Wind load         | 2400 Pa |
| Application class | A       |

## Irradiance dependence

| [W/m <sup>2</sup> ] | 1000 | 800      | 600      | 400      | 200      |
|---------------------|------|----------|----------|----------|----------|
| Isc                 | 0 %  | -19,60 % | -39,50 % | -59,20 % | -80,19 % |
| Voc                 | 0 %  | -1,38 %  | -3,05 %  | -5,90 %  | -8,30 %  |

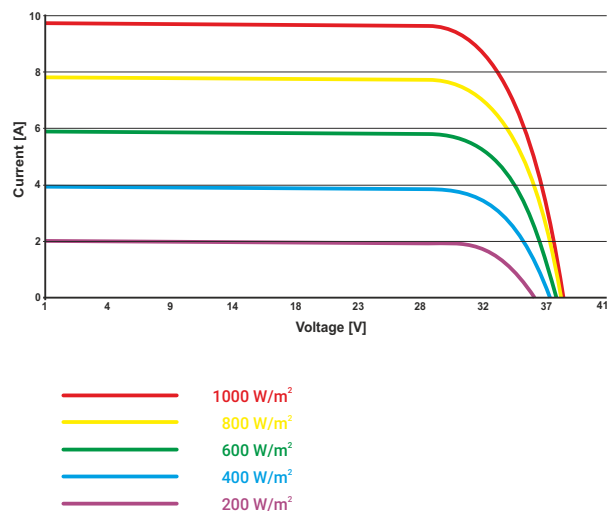
## Physical characteristics

|                            |         |
|----------------------------|---------|
| Length                     | 1640 mm |
| Width                      | 992 mm  |
| Thickness                  | 40 mm   |
| Weight                     | 18,3 kg |
| Junction box               | IP67    |
| Bypass diodes              | 3       |
| Reverse current protection | 15 A    |

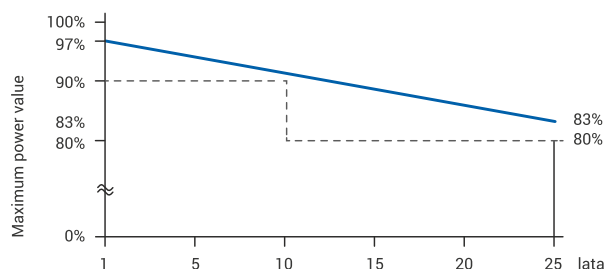
## Packing

| Packing method    | Quantity         | Transport        |
|-------------------|------------------|------------------|
| Cartoon 1,7x1,2 m | 26 pieces/pallet | 30 pallets/truck |

## CURRENT-VOLTAGE CHARACTERISTICS



## BRUK-BET SOLAR WARRANTY



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

