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# BAUER

## SOLARTECHNIK

GENERATION N - TYPE M 10

BAUER SOLARTECHNIK

## GLASS-GLASS PERFORMANCE

BS-144M10HSW-GG 590 - 600 W

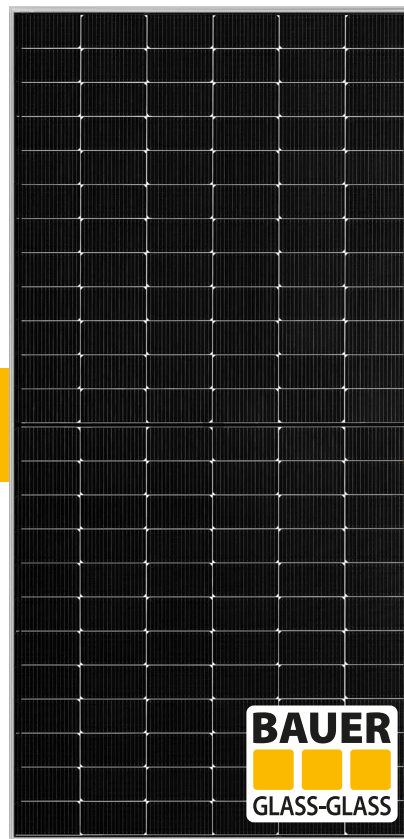
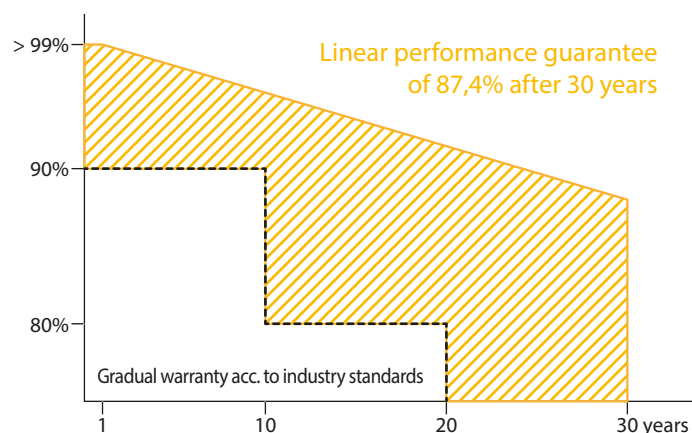
BIFACIAL GLASS-GLASS HALF-CELL MODULE - WHITE

engineered & designed in  
**GERMANY**



BAUER guarantees a minimum performance value  
of 87,4% after 30 years for the glass-glass solar modules.

A comparison of **BAUER** glass-glass solar modules performance guarantee  
to conventional glass-foil modules according to industry standards:



Sample - not a real photo

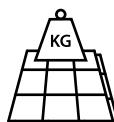
## BAUER GUARANTEE +

Our extended guarantee covers the module guarantee  
and a lump-sum compensation for the  
replacement of a defective module  
(Guarantee conditions as of 01.12.2023).



### FIRE CLASS A

Maximum fire protection through double glazing  
according to the highest security requirements



### STABILITY & DURABILITY

2 x 2 mm tempered anti-reflective solar glass:  
dirt-repellent, scratch-resistant, durable and shock-proved



### BIFACIAL N-TYPE TOPCON HALF-CELLS

Up to 30% increase in yield through bifacial cells active  
on both sides and a transparent backside



### GERMAN GUARANTOR

If necessary, it is guaranteed that a German company  
takes over any claim settlements



### PERFORMANCE GUARANTEE

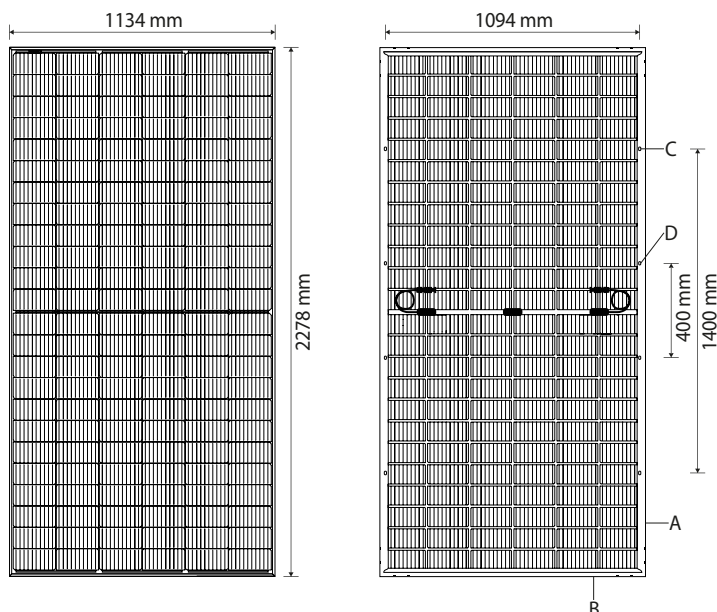
30 year warranty and a linear performance guarantee  
over a period of 30 years



### REINSURANCE COVERAGE

BAUER is reinsured for 30 years of the product's  
performance guarantee

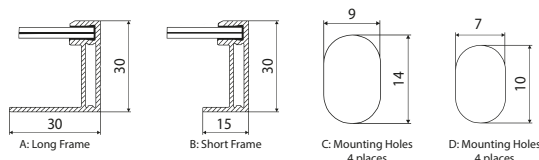
DISTRIBUTION



## PHYSICAL SPECIFICATIONS

|                    |                                                |
|--------------------|------------------------------------------------|
| Module dimensions  | 2278 x 1134 x 30 mm                            |
| Weight             | 31,8 kg                                        |
| Frame              | Anodized aluminium alloy (silver)              |
| Frontside          | Premium Protect anti-reflection glass, 2 mm    |
| Embedding material | EVA                                            |
| Backside           | White coated anti-reflection glass, 2 mm       |
| Solar cells        | 144 monocrystalline N-type bifacial half-cells |
| Bifaciality        | 80 % ± 5 %                                     |
| Junction box(es)   | IP68, 3 bypass diodes                          |
| Cable & connector  | 1x4 mm <sup>2</sup> , 300 mm, MC4 compatible   |

## BAUER SOLARTECHNIK GLASS-GLASS PERFORMANCE BS-144M10HSW-GG 590 - 600 W



## WARRANTIES<sup>1</sup>

30 years product warranty  
30 years performance guarantee

## OPERATING CONDITIONS

|                       |                     |
|-----------------------|---------------------|
| Operating temperature | -40 to 85°C         |
| Static load           | 5400 Pa (snow/wind) |
| Hail test             | Ø 25 mm at 23 m/s   |

## CERTIFICATION

IEC 61215, IEC 61730, Fire class A acc. IEC 61730-2  
IEC 61701 (Salt mist), IEC 62716 (Ammonia)

## PACKAGING

|                           |        |
|---------------------------|--------|
| Modules per pallet        | 36     |
| Pallets/modules per truck | 20/720 |

## ELECTRICAL CHARACTERISTICS<sup>2</sup>

|                                            |                                   | BS-590-144M10HSW-GG | BS-595-144M10HSW-GG | BS-600-144M10HSW-GG |
|--------------------------------------------|-----------------------------------|---------------------|---------------------|---------------------|
| Maximum power                              | P <sub>max</sub> (W)              | 590                 | 595                 | 600                 |
| Power output tolerance                     | P <sub>max</sub> (%)              | 0 ~ +3              | 0 ~ +3              | 0 ~ +3              |
| Open circuit voltage                       | V <sub>oc</sub> (V)               | 52,90               | 53,10               | 53,30               |
| Short circuit current                      | I <sub>sc</sub> (A)               | 14,11               | 14,17               | 14,23               |
| Voltage at maximum power                   | V <sub>mpp</sub> (V)              | 44,23               | 44,42               | 44,61               |
| Current at maximum power                   | I <sub>mp</sub> (A)               | 13,36               | 13,42               | 13,47               |
| Module efficiency                          | η <sub>m</sub> (%)                | 22,80               | 23,00               | 23,20               |
| Bifaciality performance increase*          | 10 % P <sub>mp</sub> (W)          | 649 (+59)           | 655 (+60)           | 660 (+60)           |
|                                            | 20 % P <sub>mp</sub> (W)          | 708 (+118)          | 714 (+119)          | 720 (+120)          |
|                                            | 30 % P <sub>mp</sub> (W)          | 767 (+177)          | 774 (+179)          | 780 (+180)          |
| Nominal operating cell temperature         | NOCT (°C)                         | 42 +/- 2/°C         |                     |                     |
| Temperature coefficient of V <sub>oc</sub> | T <sub>k</sub> (V <sub>oc</sub> ) | -0,25 %/°C          |                     |                     |
| Temperature coefficient of I <sub>sc</sub> | T <sub>k</sub> (I <sub>sc</sub> ) | +0,048 %/°C         |                     |                     |
| Temperature coefficient of P <sub>mp</sub> | T <sub>k</sub> (P <sub>mp</sub> ) | -0,29 %/°C          |                     |                     |
| Maximum system voltage DC (TÜV)            | (V)                               | 1500                |                     |                     |
| Maximum series fuse rating                 | (A)                               | 30                  |                     |                     |

\*depending on Albedo and irradiation conditions at installation site

<sup>1</sup>Nominal value is specified in the written warranty conditions. A possible light-induced degradation in performance is not taken into account. <sup>2</sup>Values under Standard Test Conditions (STC): air mass 1,5 AM, irradiance 1000 W/m<sup>2</sup>, cell temperature 25°C. STC measuring tolerance: ±3 % (P<sub>max</sub>), ±10 % (V<sub>max</sub>, I<sub>mp</sub>, V<sub>oc</sub>, I<sub>sc</sub>). The beneficiary under the reinsurance policy is solely BAUER Solar Engineering GmbH. Please contact us to get information on how this insurance coverage benefits you as a customer. Note: please read the safety instructions and installation manual before using this product. Subject to change.  
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## DISTRIBUTION