



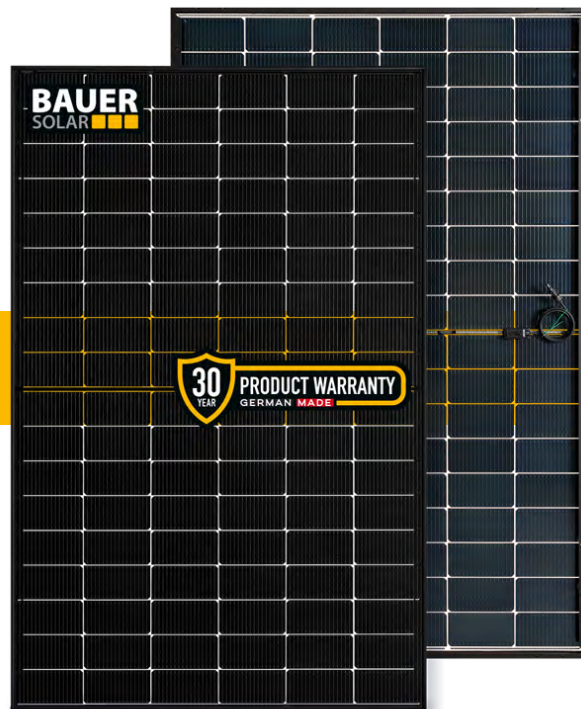
TOP CON N - TYPE M10

BAUER SOLARTECHNIK

## TRANSPARENT

BS-108M10HBT-GG 420 - 430 W

BIFACIAL GLASS-GLASS HALF-CELL MODULE



### GRADE "A" N-TYPE BIFACIAL HALF CELLS

Only Grade "A" half-cells are used in the production of all BAUER solar modules and only the blackest are selected. Up to 30% increase in yield through bifacial cells active on both sides and a glass backside.



### LOW LIGHT PERFORMANCE

Stronger performance in low lighting conditions than PERC modules, such as overcast days, mornings and evenings helping to ensure a higher energy output than PERC every day.



### STABILITY & DURABILITY

2 x 2 mm tempered anti-reflective solar glass; dirt-repellent, scratch-resistant, durable and shock-proof.



### CERTIFICATION

Constant in-house quality controls - certified several times over by accredited inspection bodies.



### FIRE CLASS A

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



### WARRANTY & GUARANTEE

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



### GERMAN GUARANTOR

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



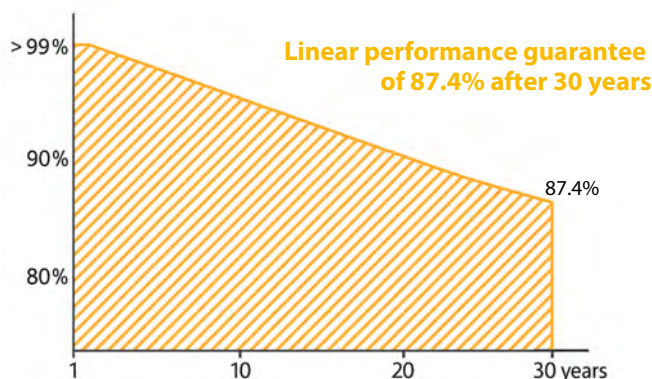
### REINSURANCE COVERAGE

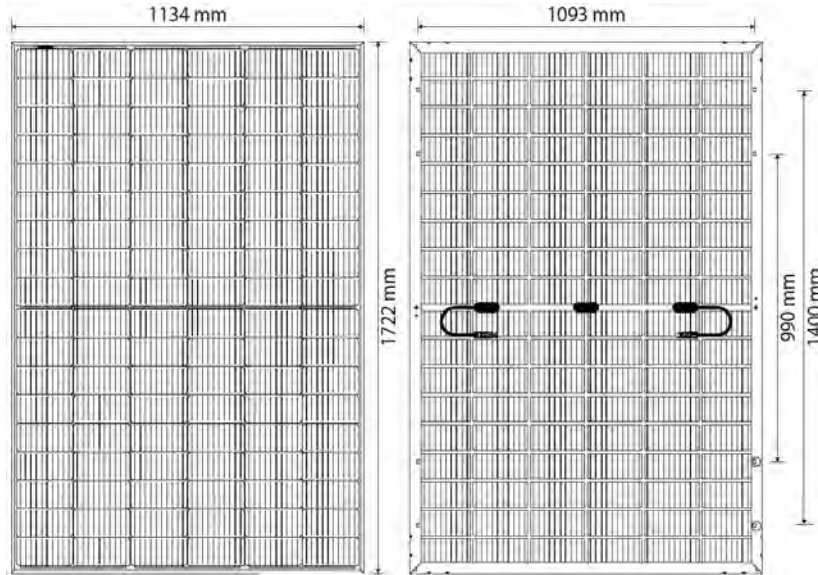
BAUER is re-insured with Munich RE for 15 years of the product warranty & 30 years of the performance guarantee.

## 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).

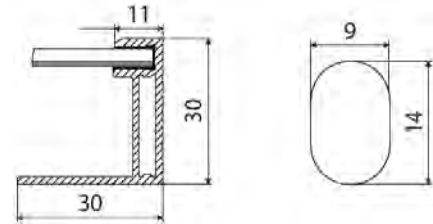
BAUER guarantees a minimum performance value of 87.4% after 30 years for the **TRANSPARENT** glass-glass solar modules.





## BAUER SOLARTECHNIK TRANSPARENT

BS-108M10HBT-GG 420 - 430 W



### WARRANTIES<sup>1</sup>

30 year product warranty

30 year performance guarantee

### PHYSICAL SPECIFICATIONS

|                    |                                                  |
|--------------------|--------------------------------------------------|
| Module dimensions  | 1722 x 1134 x 30 mm                              |
| Weight             | 24.7 kg                                          |
| Frame              | Black anodized aluminum profile                  |
| Frontside          | AR-coating semi-toughened glass, 2 mm            |
| Embedding material | EVA                                              |
| Backside           | Clear-glazed & semi-toughened glass, 2 mm        |
| Solar cells        | 108 monocrystalline N-type bifacial half-cells   |
| Bifaciality        | 80 % ± 10 %                                      |
| Junction box(es)   | IP68, 3 bypass diodes                            |
| Cable & connector  | 1x4 mm <sup>2</sup> , 1300 mm, Stäubli MC4/EVO2A |

### OPERATING CONDITIONS

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

### CERTIFICATION

IEC 61215, 61730-1/2, 61701 (Salt mist), 62716 (Ammonia)  
CSA; Fire Class: A (USA); UL Type 29

### PACKAGING

|                           |        |
|---------------------------|--------|
| Modules per pallet        | 35     |
| Pallets/modules per truck | 26/910 |

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

|                                                                                                                          |                          | BS-420-108M10HBT-GG | BS-425-108M10HBT-GG | BS-430-108M10HBT-GG |
|--------------------------------------------------------------------------------------------------------------------------|--------------------------|---------------------|---------------------|---------------------|
| Maximum power                                                                                                            | P <sub>max</sub> (W)     | 420                 | 425                 | 430                 |
| Power output tolerance                                                                                                   | P <sub>max</sub> (%)     | 0 ~ +3              | 0 ~ +3              | 0 ~ +3              |
| Open circuit voltage                                                                                                     | V <sub>oc</sub> (V)      | 38.11               | 38.40               | 38.50               |
| Short circuit current                                                                                                    | I <sub>sc</sub> (A)      | 14.07               | 14.16               | 14.23               |
| Voltage at maximum power                                                                                                 | V <sub>mpp</sub> (V)     | 31.52               | 31.72               | 31.89               |
| Current at maximum power                                                                                                 | I <sub>mp</sub> (A)      | 13.32               | 13.40               | 13.50               |
| Module efficiency                                                                                                        | η <sub>m</sub> (%)       | 21.51               | 21.76               | 22.02               |
| Bifaciality performance increase*<br><small>*depending on Albedo and irradiation conditions at installation site</small> | 10 % P <sub>mp</sub> (W) | 462 (+40)           | 467.5 (+42.5)       | 473 (+43)           |
|                                                                                                                          | 20 % P <sub>mp</sub> (W) | 504 (+84)           | 510 (+85)           | 516 (+86)           |
|                                                                                                                          | 30 % P <sub>mp</sub> (W) | 546 (+126)          | 552.5 (+127.5)      | 559 (+129)          |
| Nominal operating cell temperature                                                                                       | NOCT (°C)                | 45 +/- 2            |                     |                     |
| Temperature coefficient of Voc                                                                                           | Tk (Voc)                 | -0.26 %/°C          |                     |                     |
| Temperature coefficient of Isc                                                                                           | Tk (Isc)                 | +0.046 %/°C         |                     |                     |
| Temperature coefficient of P <sub>mp</sub>                                                                               | Tk (P <sub>mp</sub> )    | -0.30 %/°C          |                     |                     |
| Maximum system voltage DC (TÜV)                                                                                          | (V)                      | 1500                |                     |                     |
| Maximum series fuse rating                                                                                               | (A)                      | 30                  |                     |                     |

<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 pressure 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 installation manual before using this product. Subject to change.

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