



TOPCON - TYPE M12

BAUER SOLARTECHNIK

COMMERCIAL

BS-132M12HBW-GG 695 - 705 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.



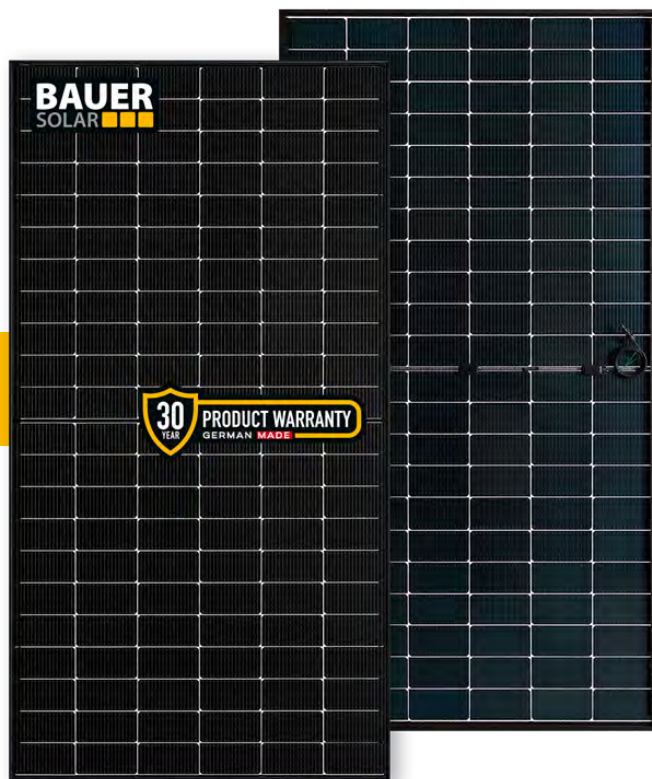
GERMAN GUARANTOR

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.

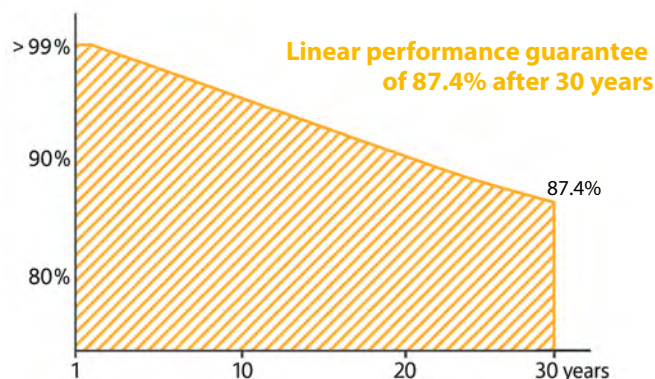


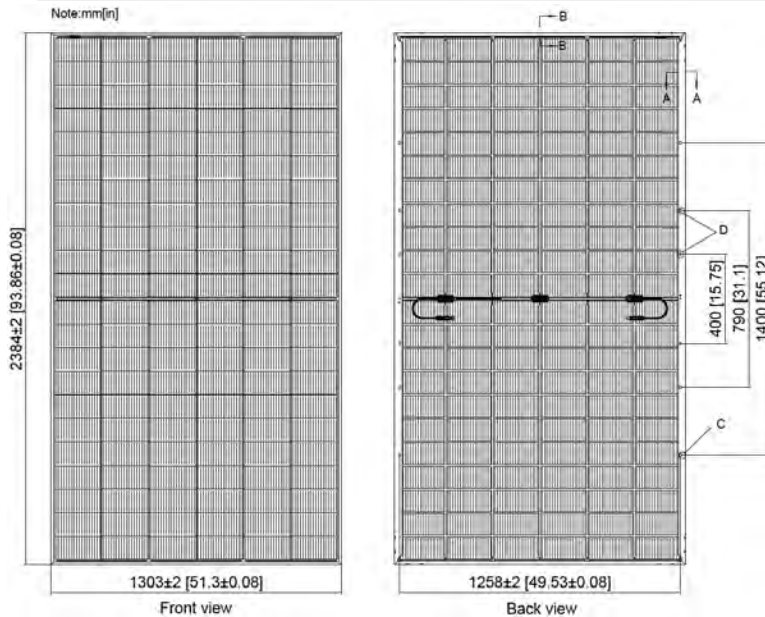
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GUARANTEE +

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 **COMMERCIAL** glass-glass solar modules.





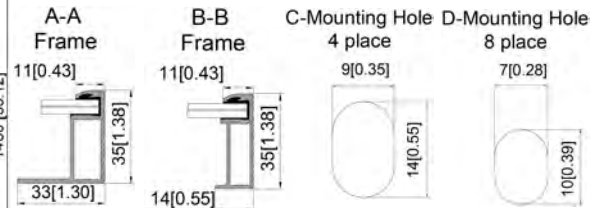
PHYSICAL SPECIFICATIONS

| | |
|--------------------|--|
| Module dimensions | 2384 x 1303 x 35 mm |
| Weight | 38.5 kg |
| Frame | Black anodized aluminum profile |
| Frontside | AR-coating semi-toughened glass, 2 mm |
| Embedding material | EVA |
| Backside | White-glazed & semi-toughened glass, 2 mm |
| Solar cells | 132 monocrystalline N-type bifacial half-cells |
| Bifaciality | 80 % ± 10 % |
| Junction box(es) | IP68, 3 bypass diodes |
| Cable & connector | 1x4 mm ² , 1300 mm, Stäubli MC4/EVO2A |

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WARRANTIES¹

30 year product warranty
30 year performance guarantee

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 | 30 |
| Pallets/modules per truck | 18/540 |

ELECTRICAL CHARACTERISTICS²

| | | BS-695-132M12HBW-GG | BS-700-132M12HBW-GG | BS-705-132M12HBW-GG |
|--|---------------------------|---------------------|---------------------|---------------------|
| Maximum power | P _{max} (W) | 695 | 700 | 705 |
| Power output tolerance | P _{max} (%) | 0 ~ +3 | 0 ~ +3 | 0 ~ +3 |
| Open circuit voltage | V _{oc} (V) | 48.30 | 48.50 | 48.70 |
| Short circuit current | I _{sc} (A) | 18.28 | 18.32 | 18.37 |
| Voltage at maximum power | V _{mpp} (V) | 40.30 | 40.50 | 40.70 |
| Current at maximum power | I _{mpp} (A) | 17.25 | 17.29 | 17.33 |
| Module efficiency | η _m (%) | 22.37 | 22.53 | 22.70 |
| Bifaciality performance increase* | 10 % P _{mpp} (W) | 764.5 (+69.5) | 770 (+70) | 776 (+71) |
| | 20 % P _{mpp} (W) | 834 (+139) | 840 (+140) | 846 (+141) |
| | 30 % P _{mpp} (W) | 903.5 (+208.5) | 910 (+210) | 917 (+212) |
| *depending on Albedo and irradiation conditions at installation site | | | | |
| Nominal operating cell temperature | NOCT (°C) | 45 +/- 2 | | |
| Temperature coefficient of V _{oc} | Tk (V _{oc}) | -0.26 %/°C | | |
| Temperature coefficient of I _{sc} | Tk (I _{sc}) | +0.046 %/°C | | |
| Temperature coefficient of P _{mpp} | Tk (P _{mpp}) | -0.30 %/°C | | |
| Maximum system voltage DC (TÜV) | (V) | 1500 | | |
| Maximum series fuse rating | (A) | 30 | | |

¹Nominal value is specified in the written warranty conditions. A possible light-induced degradation in performance is not taken into account.

²Values under Standard Test Conditions (STC): air pressure 1.5 AM, irradiance 1000 W/m², cell temperature 25°C. STC measuring tolerance: ±3 % (P_{max}), ±10 % (V_{max}, I_{mpp}, V_{OC}, I_{SC}). 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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