



TOPCon N-TYPE M 12

BAUER SOLARTECHNIK

TRANSPARENT

BS-132M12HBT-GG 610 - 620 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 BAÚER 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 ovér a period of 30 years.



GERMAN GUARANTOR

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



REINSURANCE COVERAGE

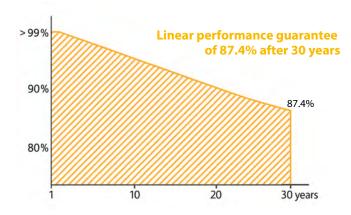
BAUER is re-insured with Munich RE for 15 years of the product warranty & 30 years of the performance guarantee.



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.





Module dimensions

Embedding material

Weight

Frame

Frontside

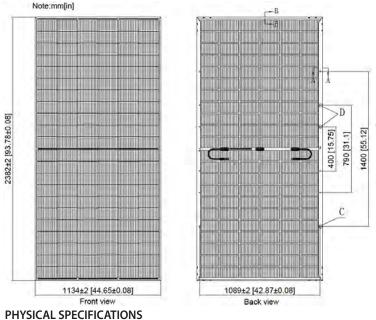
Backside

Solar cells

Bifaciality

Junction box(es)

Cable & connector



2382 x 1134 x 35 mm

Black anodized aluminum profile

AR-coating semi-toughened glass, 2 mm

Clear-glazed & semi-toughened glass, 2 mm

132 monocrystalline N-type bifacial half-cells

4 mm², 1300 mm, Stäubli MC4/EVO2A

33.6 kg

EVA

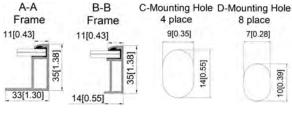
80 % ± 10 %

IP68, 3 bypass diodes

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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

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

PACKAGING

BS-620-132M12HBT-GG
620
0 ~ +3
48.70
15.95
41.23
15.04
22.95
682 (+62)
744 (+124)
806 (+186)

| Modules per pallet | 30 |
|---------------------------|--------|
| Pallets/modules per truck | 20/600 |

| ELECTRICAL CHARACTERISTICS ² | BS-610-132M12HBT-GG | |
|--|---------------------|-------------|
| Maximum power | Pmax (W) | 610 |
| Power output tolerance | Pmax (%) | 0 ~ +3 |
| Open circuit voltage | Voc (V) | 48.30 |
| Short circuit current | Isc (A) | 15.85 |
| Voltage at maximum power | Vmpp (V) | 40.83 |
| Current at maximum power | Impp (A) | 14.94 |
| Module efficiency | ηm (%) | 22.58 |
| Bifaciality performance increase* *depending on Albedo and irradiation conditions at installation site | 10 % Pmpp (W) | 671 (+61) |
| | 20 % Pmpp (W) | 732 (+122) |
| | 30 % Pmpp (W) | 793 (+183) |
| 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 Pmpp | Tk (Pmpp) | -0.30 %/°C |
| Maximum system voltage DC (TÜV) | (V) | 1500 |

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

 2 Values under Standard Test Conditions (STC): air pressure 1.5 AM, irradiance 1000 W/m², cell temperature 25°C. STC measuring tolerance: ± 3 % (Pmax), ± 10 % (Vmax, Impp, VOC, ISC). 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 th installation manual before using this product. Subject to change.

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Maximum series fuse rating

(A)

30