



TOPCon N-TYPE M12

BAUER SOLARTECHNIK

PREMIUM PROTECT

BS-132M12NHBT-GG 690 - 700 W

BIFACIAL GLASS-GLASS HALF-CELL MODULE - TRANSPARENT







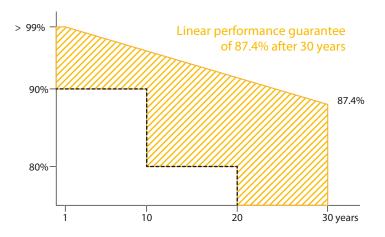






BAUER guarantees a minimum performance value of 87.4% after 30 years for the **PREMIUM PROTECT** glass-glass solar modules.







FIRE CLASS A

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



CERTIFICATION

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



GRADE A N-TYPE BIFACIAL HALF-CELLS

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



GERMAN GUARANTOR

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



PERFORMANCE GUARANTEE

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



REINSURANCE COVERAGE

BAUER is re-insured with Munich RE for 12 years of the product warranty & 25 years of the performance guarantee



PHYSICAL SPECIFICATIONS

Module dimensions

Embedding material

Weight

Frame

Frontside

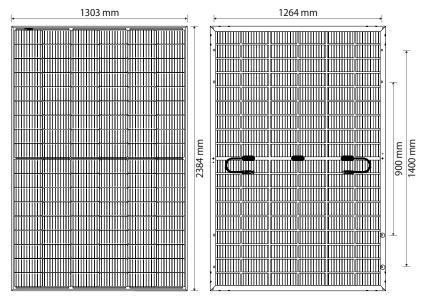
Backside

Solar cells Bifaciality

Junction box(es)

Cable & connector





2384 x 1303 x 35 mm

Silver anodized aluminum profile

AR-coating Semi-toughened glass, 2 mm

White-glazed & Semi-toughened glass, 2 mm

132 monocrystalline N-type bifacial half-cells

1x4 mm², 500 mm, MC4 compatible

38.5 kg

EVA

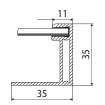
 $80\% \pm 10\%$

IP68, 3 bypass diodes

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WARRANTIES¹

30 years product warranty	
30 years performance guarantee	

OPERATING CONDITIONS

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

CERTIFICATION

CSA, IEC 61215, IEC 61730, Fire Class A IEC 61730-2 (UL790)

BS-700-132M12NHB-GG 700

 $0 \sim +3$

48.50

18.32

40.50

17.29

22.53

770 (+70)

840 (+140)

910 (+210)

PACKAGING

BS-695-132M12NHB-GG

695 0 ~ +3

48.30

18.28

40.30

17.25

22.37

764.5 (+69.5)

834 (+139)

903.5 (+208.5)

Modules per pallet	31
Modules per container	558

ELECTRICAL CHARACTERISTICS ²	BS-690-132M12NHB-GG	
Maximum power	Pmax (W)	690
Power output tolerance	Pmax (%)	0 ~ +3
Open circuit voltage	Voc (V)	47.90
Short circuit current	Isc (A)	18.25
Voltage at maximum power	Vmpp (V)	40.10
Current at maximum power	Impp (A)	17.23
Module efficiency	ηm (%)	22.21
	10 % Pmpp (W)	759 (+69)
Bifaciality performance increase* *depending on Albedo and irradiation conditions at installation site	20 % Pmpp (W)	828 (+138)
	30 % Pmpp (W)	897 (+207)
Nominal opterating cell temperature	NOCT (°C)	45 +/- 2
Temperature coefficient of Voc	Tk (Voc)	-0.25 %/°C
Temperature coefficient of Isc	Tk (Isc)	+0.040 %/°C
Temperature coefficient of Pmpp	Tk (Pmpp)	-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.

 2 Values under Standard Test Conditions (STC): air pressure 1.5 AM, irradiance 1000 W/m 2 , cell temperature 25°C. STC measuring tolerance: ± 3 % (Pmax), ± 10 % (Vmax, Impp, Voc, Isc). The beneficiary under the reinsurance policy is solely Bauer Solar 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. © 2023 Bauer Solar GmbH. Effective: 04/04/23.

