



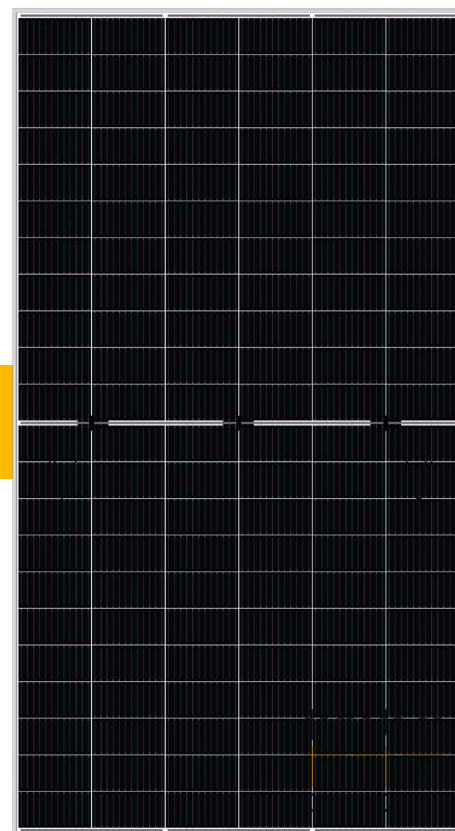
GENERATION N-TYPE M12

BAUER SOLARTECHNIK

PREMIUM PROJECT

BS-132M12HBW-GG 690 - 700 W

BIFACIAL GLASS-GLASS HALF-CELL MODULE - WHITE



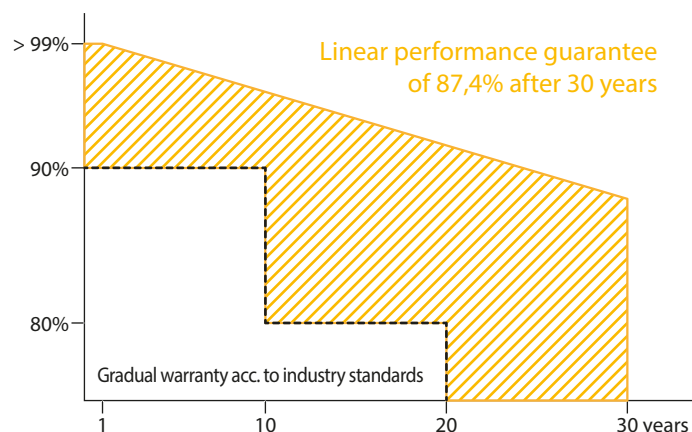
Sample

engineered & designed in
GERMANY



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

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



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



N-TYPE BIFACIAL 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

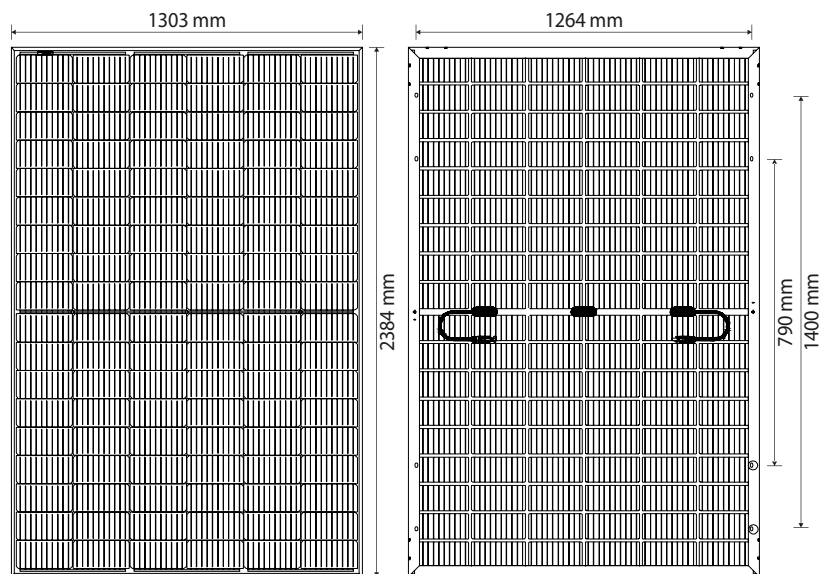
30 year warranty and a linear performance guarantee over a period of 30 years



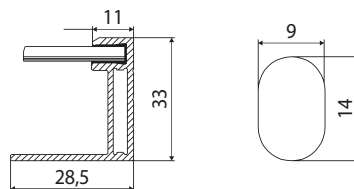
REINSURANCE COVERAGE

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

DISTRIBUTION



BAUER SOLARTECHNIK PREMIUM PROJECT BS-132M12HBW-GG 690 - 700 W



WARRANTIES¹

- 30 years product warranty
- 30 years performance guarantee

PHYSICAL SPECIFICATIONS

Module dimensions	2384 x 1303 x 33 mm
Weight	38,3 kg
Frame	Black anodized aluminium profile
Frontside	AR-coated semi-toughened glass, 2 mm
Embedding material	EVA
Backside	White coated 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, MC4 compatible

OPERATING CONDITIONS

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

CERTIFICATION

IEC 61215, IEC 61730, fire class A acc. IEC 61730-2

PACKAGING

Modules per pallet	31
Pallets/modules per truck	18/558

ELECTRICAL CHARACTERISTICS²

		BS-690-132M12HBW-GG	BS-695-132M12HBW-GG	BS-700-132M12HBW-GG
Maximum power	P _{max} (W)	690	695	700
Power output tolerance	P _{max} (%)	0 ~ +3	0 ~ +3	0 ~ +3
Open circuit voltage	V _{oc} (V)	47,33	47,52	47,71
Short circuit current	I _{sc} (A)	18,28	18,34	18,40
Voltage at maximum power	V _{mpp} (V)	39,96	40,13	40,30
Current at maximum power	I _{mpp} (A)	17,27	17,32	17,37
Module efficiency	η _m (%)	22,21	22,37	22,53
Bifaciality performance increase*	10 % P _{mpp} (W)	759 (+69)	765 (+70)	770 (+70)
	20 % P _{mpp} (W)	828 (+138)	834 (+139)	840 (+140)
	30 % P _{mpp} (W)	897 (+207)	904 (+209)	910 (+210)
Nominal operating cell temperature	NOCT (°C)	45 +/- 2		
Temperature coefficient of V _{oc}	T _k (V _{oc})	-0,26 %/°C		
Temperature coefficient of I _{sc}	T _k (I _{sc})	+0,038 %/°C		
Temperature coefficient of P _{mpp}	T _k (P _{mpp})	-0,31 %/°C		
Maximum system voltage DC (TÜV)	(V)	1500		
Maximum series fuse rating	(A)	30		

*depending on Albedo and irradiation conditions at installation site

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 mass 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 safety instructions and installation manual before using this product. Subject to change.
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