



GENERATION N-TYPE M10

BAUER SOLARTECHNIK

PREMIUM PROTECT

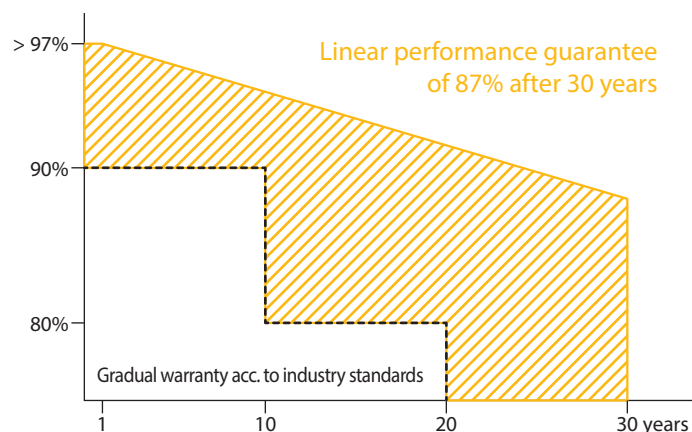
BS-108M10HBB-GG 420 - 430 W

BIFACIAL GLASS-GLASS HALF-CELL MODULE - TRANSPARENT



BAUER guarantees a minimum performance value of 87% 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



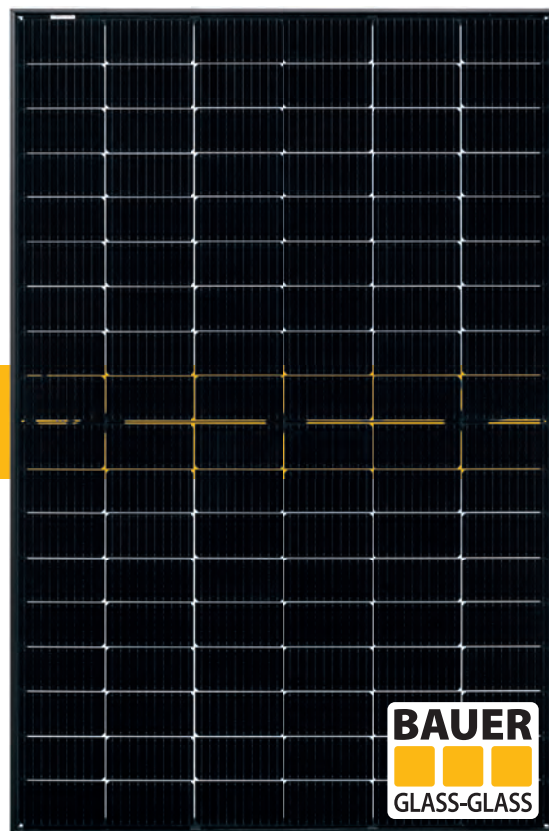
PERFORMANCE GUARANTEE

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

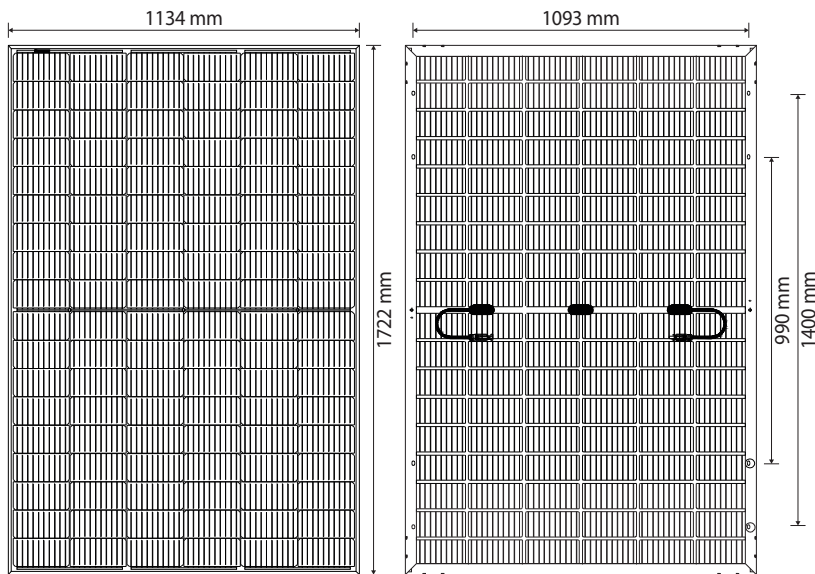


REINSURANCE COVERAGE

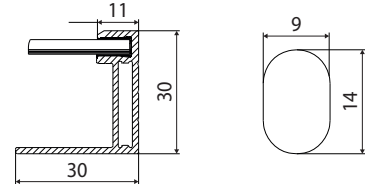
BAUER is reinsured for 12 years of the product's warranty and 25 years of the product's performance guarantee



DISTRIBUTION



BAUER SOLARTECHNIK PREMIUM PROTECT BS-108M10HBB-GG 420 - 430 W



WARRANTIES¹

30 years product warranty
30 years performance guarantee

PHYSICAL SPECIFICATIONS

Module dimensions	1722 x 1134 x 30 mm
Weight	24,7 kg
Frame	Anodized aluminium alloy (black)
Frontside	Premium Protect anti-reflection glass, 2 mm
Embedding material	EVA
Backside	Premium Protect toughened glass, 2 mm
Solar cells	108 monocrystalline N-type bifacial half-cells
Bifaciality	80 % ± 5 %
Junction box(es)	IP68, 3 bypass diodes
Cable & connector	1x4 mm ² , 1200 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	35
Pallets/modules per truck	26/910

ELECTRICAL CHARACTERISTICS²

		BS-420-108M10HBB-GG	BS-425-108M10HBB-GG	BS-430-108M10HBB-GG
Maximum power	P _{max} (W)	420	425	430
Power output tolerance	P _{max} (%)	0 ~ +3	0 ~ +3	0 ~ +3
Open circuit voltage	V _{oc} (V)	38,11	38,40	38,50
Short circuit voltage	I _{sc} (A)	14,07	14,16	14,23
Voltage at maximum power	V _{mpp} (V)	31,52	31,72	31,89
Current at maximum power	I _{mpp} (A)	13,32	13,40	13,50
Module efficiency	η _m (%)	21,51	21,76	22,02
Bifaciality performance increase*	10 % P _{mpp} (W)	462 (+40)	467,5 (+42,5)	473 (+43)
	20 % P _{mpp} (W)	504 (+84)	510 (+85)	516 (+86)
	30 % P _{mpp} (W)	546 (+126)	552,5 (+127,5)	559 (+129)
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})	+0,046 %/°C		
Temperature coefficient of P _{mpp}	T _k (P _{mpp})	-0,30 %/°C		
Maximum system voltage DC (TÜV)	(V)	1500		
Maximum series fuse rating	(A)	15		

*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_{mp}, V_{oc}, I_{sc}). 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.
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