

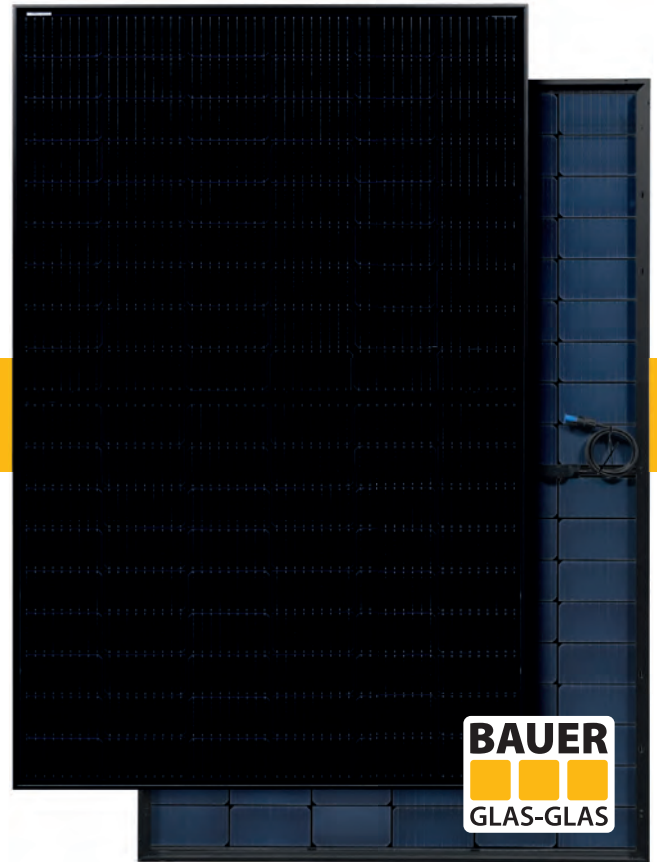


TOPCON N-TYPE M10

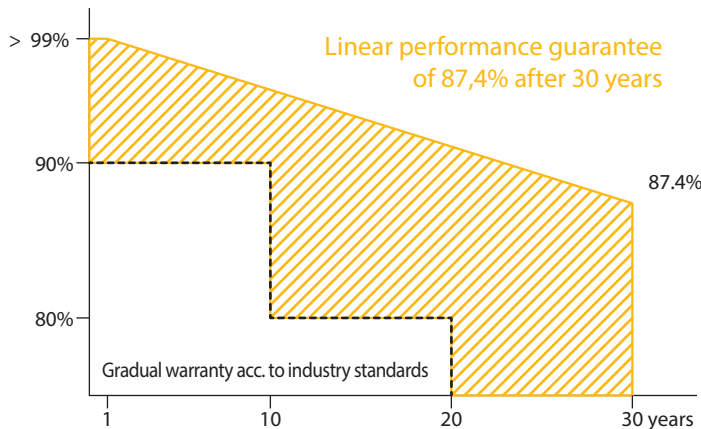
BAUER SOLARTECHNIK PREMIUM PROTECT

BS-108M10NHBB-GG 420 - 430 W

BIFACIAL GLASS-GLASS HALF-CELL MODULE - SUPERBLACK



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



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



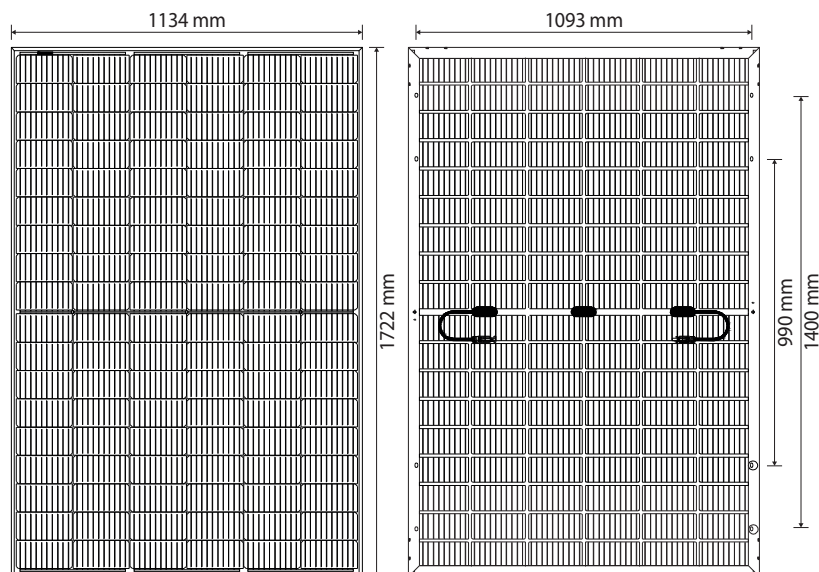
PERFORMANCE GUARANTEE

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



REINSURANCE COVERAGE

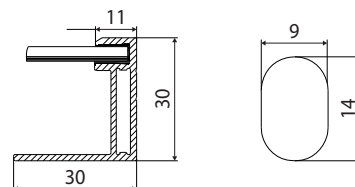
BAUER is re-insured with Munich RE for 12 years of the product warranty & 25 years of the performance guarantee



BAUER SOLARTECHNIK

PREMIUM PROTECT

BS-108M10NHBB-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	AR-coating Semi-toughened glass, 2 mm
Embedding material	EVA
Backside	Semi-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/ice)
Hail	Ø 25 mm at 23 m/s

CERTIFICATION

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

PACKAGING

Modules per pallet	35
Pallets/modules per container	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 current	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 Voc	T _k (Voc)	-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)	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 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.