

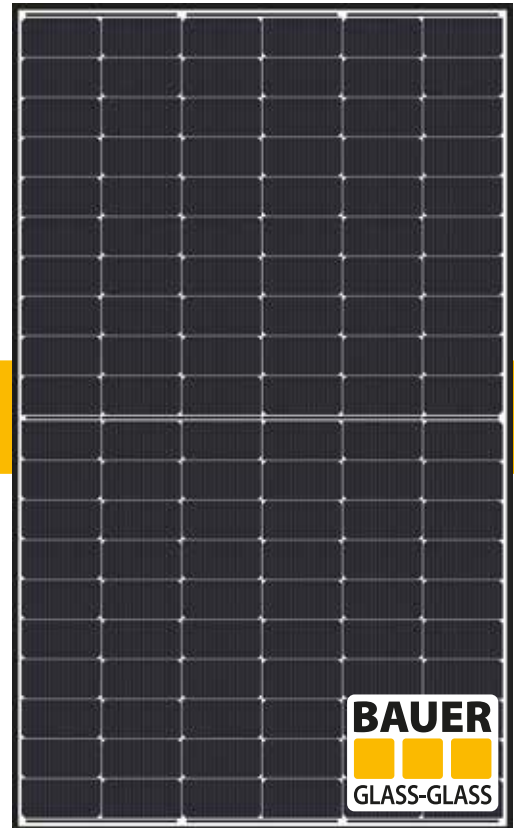


TOPCON N-TYPE M10

BAUER SOLARTECHNIK

PREMIUM PROTECT

BS-120M10NHBT-GG 465 - 475 W

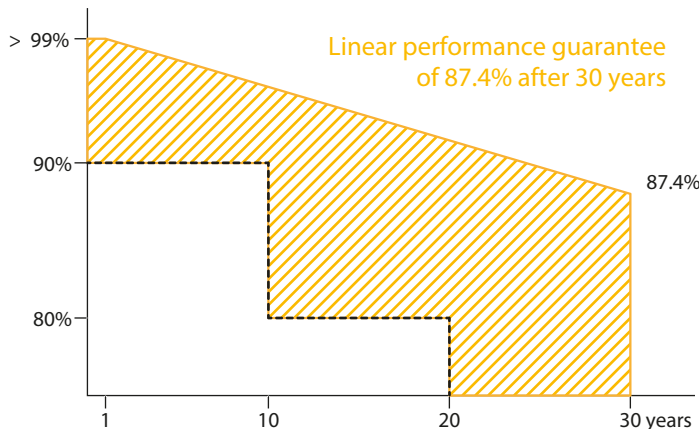


BIFACIAL GLASS-GLASS HALF-CELL MODULE - TRANSPARENT

engineered & designed in
GERMANY



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



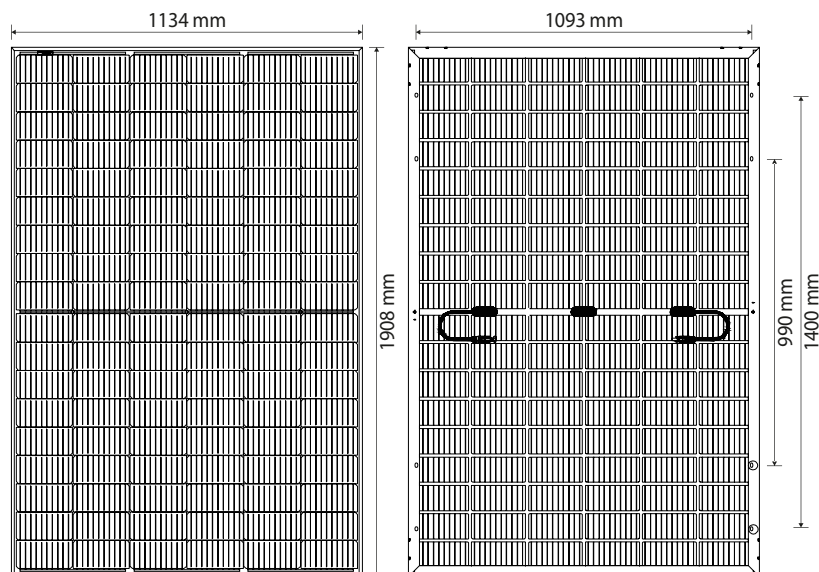
PERFORMANCE GUARANTEE

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

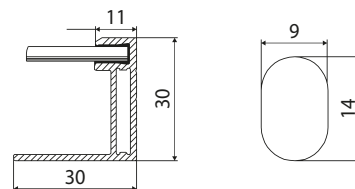


REINSURANCE COVERAGE

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



BAUER SOLARTECHNIK PREMIUM PROTECT BS-120M10NHBT-GG 465 - 475 W



WARRANTIES¹

- 30 years product warranty
- 30 years performance guarantee

PHYSICAL SPECIFICATIONS

Module dimensions	1908 x 1134 x 30 mm
Weight	26.7 kg
Frame	Black anodized aluminum profile
Frontside	AR-coating Semi-toughened glass, 2 mm
Embedding material	EVA
Backside	Semi-toughened glass, 2 mm
Solar cells	120 monocrystalline N-type bifacial half-cells
Bifaciality	80 % ± 10 %
Junction box(es)	IP68, 3 bypass diodes
Cable & connector	1x4 mm ² , 500 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
Modules per container	840

ELECTRICAL CHARACTERISTICS²

		BS-465-120M10NHB-GG	BS-470-120M10NHB-GG	BS-475-120M10NHB-GG
Maximum power	P _{max} (W)	465	470	475
Power output tolerance	P _{max} (%)	0 ~ +3	0 ~ +3	0 ~ +3
Open circuit voltage	V _{oc} (V)	42.21	42.37	42.53
Short circuit current	I _{sc} (A)	14.08	14.15	14.23
Voltage at maximum power	V _{mpp} (V)	34.92	35.07	35.23
Current at maximum power	I _{mp} (A)	13.32	13.41	13.49
Module efficiency	η _m (%)	21.49	21.72	21.95
Bifaciality performance increase*	10 % P _{mp} (W)	511.5 (+46.5)	517 (+47)	522.5 (+47.5)
	20 % P _{mp} (W)	558 (+93)	564 (+94)	570 (+95)
	30 % P _{mp} (W)	604.5 (+139.5)	611 (+141)	617.5 (+142.5)
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 _{mp}	T _k (P _{mp})	-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_{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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