



TOPCON N-TYPE M10

BAUER SOLARTECHNIK

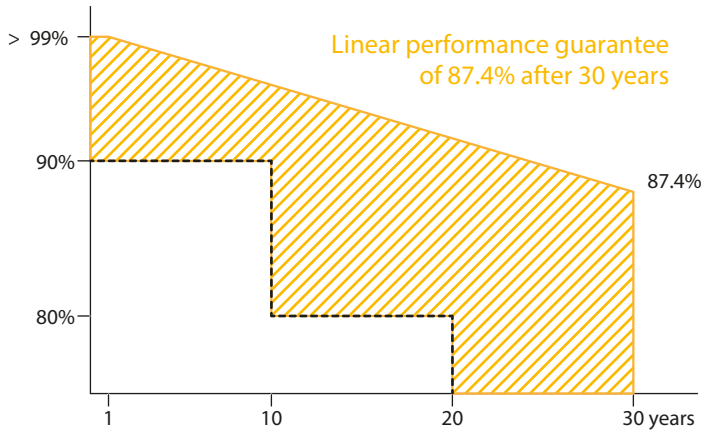
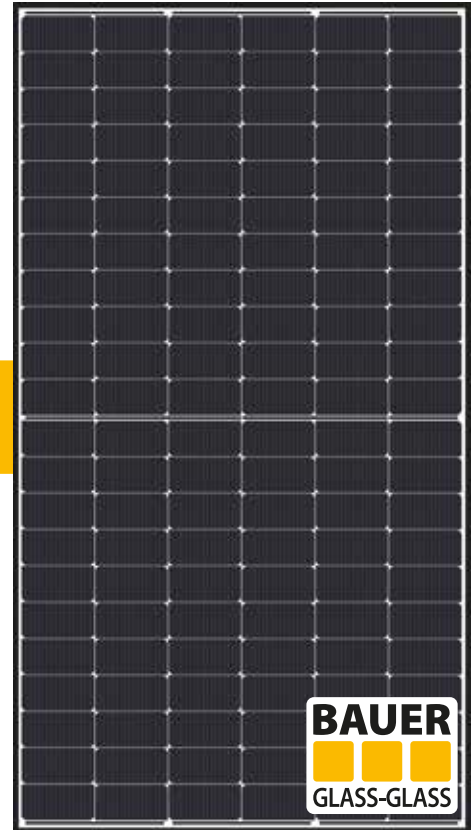
PREMIUM PROTECT

BS-132M10NHBT-GG 515 - 525 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



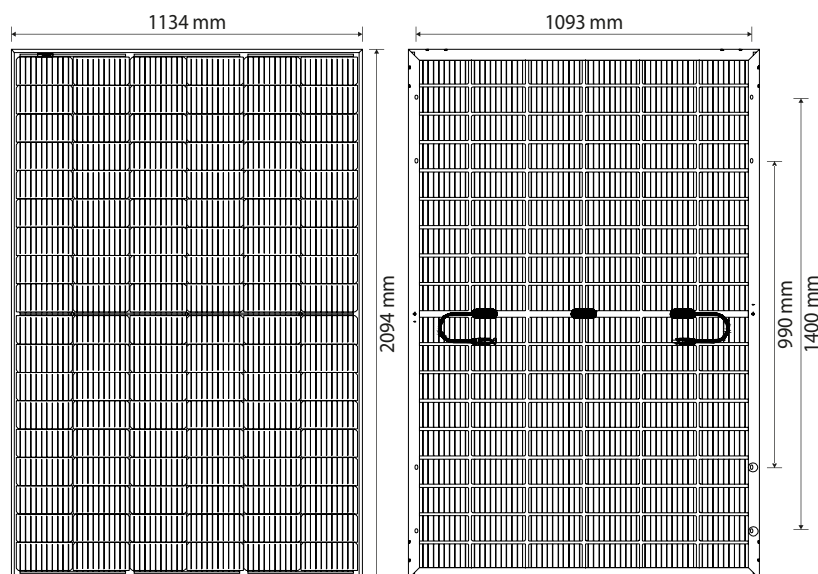
PERFORMANCE GUARANTEE

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



REINSURANCE COVERAGE

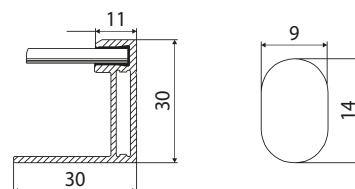
BAUER is re-insured with Munich RE for 12 years of the product warranty & 25 years of the performance guarantee



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PREMIUM PROTECT

BS-132M10NHBT-GG 515 - 525 W



WARRANTIES¹

- 30 years product warranty
- 30 years performance guarantee

PHYSICAL SPECIFICATIONS

Module dimensions	2094 x 1134 x 30 mm
Weight	29.2 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	132 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	770

ELECTRICAL CHARACTERISTICS²

		BS-515-132M10NHB-GG	BS-520-132M10NHB-GG	BS-525-132M10NHB-GG
Maximum power	P _{max} (W)	515	520	525
Power output tolerance	P _{max} (%)	0 ~ +3	0 ~ +3	0 ~ +3
Open circuit voltage	V _{oc} (V)	46.63	46.8	46,96
Short circuit current	I _{sc} (A)	14.08	14.17	14.25
Voltage at maximum power	V _{mpp} (V)	38.62	38.78	38.93
Current at maximum power	I _{mp} (A)	13.34	13.42	13.49
Module efficiency	η _m (%)	21.69	21.90	22.11
Bifaciality performance increase*	10% P _{mp} (W)	566.5 (+51.5)	572 (+52)	577.5 (+52.5)
	20% P _{mp} (W)	618 (+103)	624 (+104)	630 (+105)
	30% P _{mp} (W)	669.5 (+154.5)	676 (+156)	682.5 (+157.5)
Nominal operating cell temperature	NOCT (°C)	45 +/- 2		
Temperature coefficient of Voc	Tk (Voc)	-0.26 %/°C		
Temperature coefficient of Isc	Tk (Isc)	+0.046 %/°C		
Temperature coefficient of P _{mp}	Tk (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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