



GENERATION N-TYPE M10

BAUER SOLARTECHNIK

## PREMIUM PROTECT

BS-144M10HBB-GG 560 - 570 W

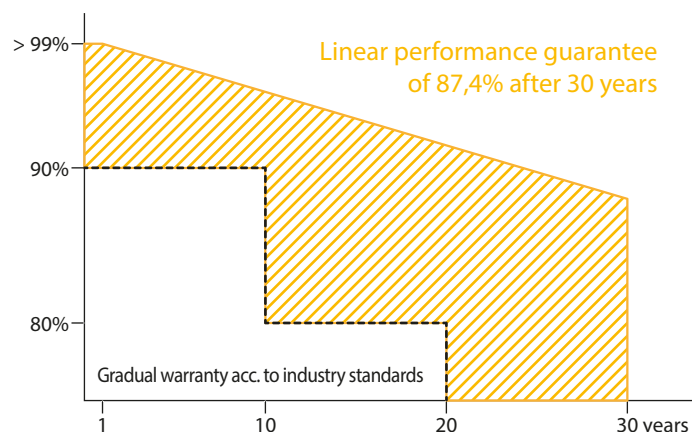
BIFACIAL GLASS-GLASS HALF-CELL MODULE

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



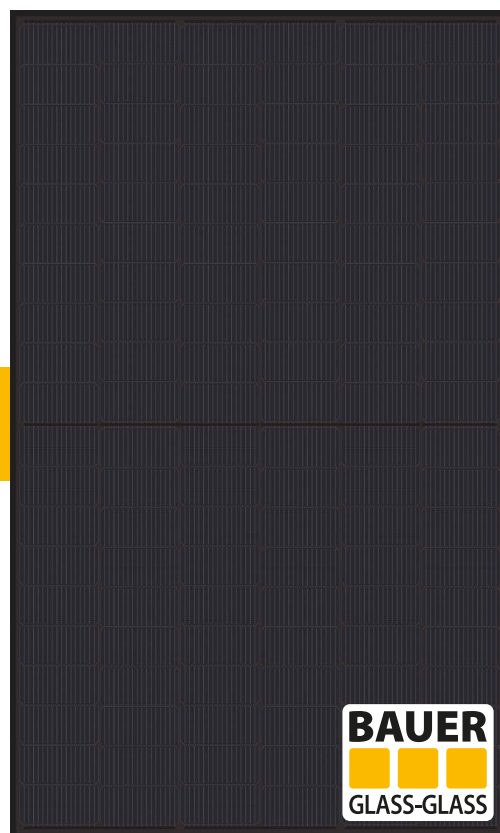
### PERFORMANCE GUARANTEE

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

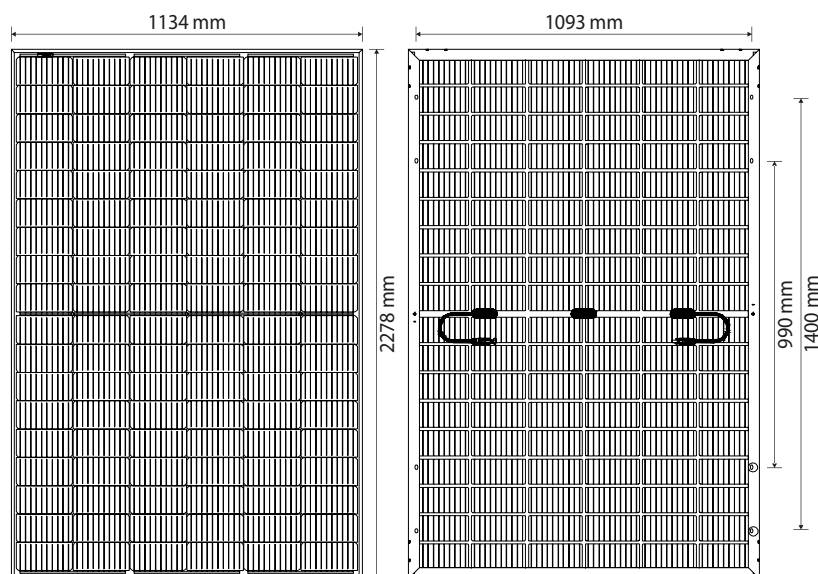


### REINSURANCE COVERAGE

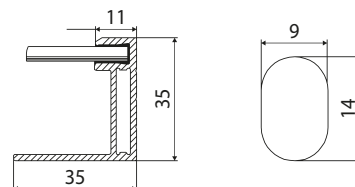
BAUER is reinsured for 30 years of the product's performance guarantee



Sample



## BAUER SOLARTECHNIK PREMIUM PROTECT BS-144M10HBB-GG 560 - 570 W



### WARRANTIES<sup>1</sup>

- 30 years product warranty
- 30 years performance guarantee

### PHYSICAL SPECIFICATIONS

Module dimensions	2278 x 1134 x 35 mm
Weight	32,7 kg
Frame	Black anodized aluminium profile
Frontside	AR-coating Semi-toughened glass, 2 mm
Embedding material	EVA
Backside	Black-glazed & Semi-toughened glass, 2 mm
Solar cells	144 monocrystalline N-type bifacial half-cells
Bifaciality	80 % ± 10 %
Junction box(es)	IP68, 3 bypass diodes
Cable & connector	1x4 mm <sup>2</sup> , 500 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	30
Pallets/modules per truck	20/600

### ELECTRICAL CHARACTERISTICS<sup>2</sup>

		BS-560-144M10HBB-GG	BS-565-144M10HBB-GG	BS-570-144M10HBB-GG
Maximum power	P <sub>max</sub> (W)	560	565	570
Power output tolerance	P <sub>max</sub> (%)	0 ~ +3	0 ~ +3	0 ~ +3
Open circuit voltage	V <sub>oc</sub> (V)	50,67	50,87	51,07
Short circuit current	I <sub>sc</sub> (A)	14,13	14,19	14,25
Voltage at maximum power	V <sub>mpp</sub> (V)	41,95	42,14	42,34
Current at maximum power	I <sub>mp</sub> (A)	13,34	13,41	13,48
Module efficiency	η <sub>m</sub> (%)	21,68	21,87	22,07
Bifaciality performance increase*	10 % P <sub>mpp</sub> (W)	616 (+56)	621,5 (+56,5)	627 (+57)
	20 % P <sub>mpp</sub> (W)	672 (+112)	678 (+113)	684 (+114)
	30 % P <sub>mpp</sub> (W)	728 (+168)	734,5 (+169,5)	741 (+171)
Nominal operating cell temperature	NOCT (°C)	45 +/- 2		
Temperature coefficient of V <sub>oc</sub>	T <sub>k</sub> (V <sub>oc</sub> )	-0,26 %/°C		
Temperature coefficient of I <sub>sc</sub>	T <sub>k</sub> (I <sub>sc</sub> )	+0,046 %/°C		
Temperature coefficient of P <sub>mpp</sub>	T <sub>k</sub> (P <sub>mpp</sub> )	-0,30 %/°C		
Maximum system voltage DC (TÜV)	(V)	1500		
Maximum series fuse rating	(A)	30		

\*depending on Albedo and irradiation conditions at installation site

<sup>1</sup>Nominal value is specified in the written warranty conditions. A possible light-induced degradation in performance is not taken into account. <sup>2</sup>Values under Standard Test Conditions (STC): air mass 1,5 AM, irradiance 1000 W/m<sup>2</sup>, cell temperature 25°C. STC measuring tolerance: ±3 % (P<sub>max</sub>), ±10 % (V<sub>max</sub>, I<sub>mp</sub>, V<sub>oc</sub>, I<sub>sc</sub>). 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.

### DISTRIBUTION