



GENERATION N-TYPE M10

BAUER SOLARTECHNIK GLASS-GLASS BLACK

BS-108M10HBB-GG 440 - 450 W

BIFACIAL GLASS-GLASS HALF-CELL MODULE - BLACK





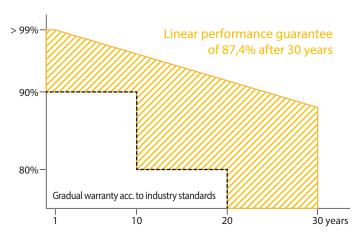






BAUER guarantees a minimum performance value of 87,4% after 30 years for the glass-glass solar modules.

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



STABILITY & DURABILITY

2 x 2 mm tempered anti-reflective solar glass: dirt-repellent, scratch-resistant, durable and shock-proved

GLASS-GLASS



BIFACIAL N-TYPE TOPCON 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

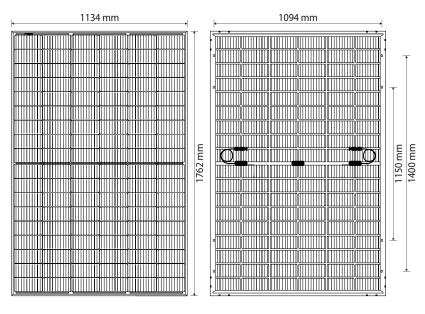
BAUER is reinsured for 30 years of the product's

DISTRIBUTION









PHYSICAL SPECIFICATIONS

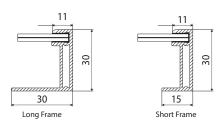
ELECTRICAL CHARACTERISTICS²

Module dimensions	1762 x 1134 x 30 mm	
Weight	24,5 kg	
Frame	Anodized aluminium alloy (black)	
Frontside	Premium Protect anti-reflection glass, 2 mm	
Embedding material	EVA	
Backside	Black coated anti-reflection 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 mm², 1300 mm, Stäubli MC4/EVO2A	

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WARRANTIES1

30 years product warranty

30 years performance guarantee

OPERATING CONDITIONS

Operating temperature		-40 to 85°C	
Static load		5400 Pa (snow/wind)	
Hail test	HW3	Ø 30 mm at ~ 24 m/s	

CERTIFICATION

IEC 61215, IEC 61730, Fire class A acc. IEC 61730-2 IEC 61701 (Salt mist), IEC 62716 (Ammonia)

PACKAGING

BS-445-108M10HBB-GG

445

 $0 \sim +3$

39,60

13,97

33,04

13,47

22,30

490 (+45)

534 (+89)

579 (+134)

Modules per pallet	36
Pallets/modules per truck	26/936

BS-450-108M10HBB-GG

450

 $0 \sim +3$

39,80

14,04

33,24

13,54

22,50

495 (+45)

540 (+90)

585 (+135)

	55 1	10 TOOMTOTIBB GG
Maximum power	Pmax (W)	440
Power output tolerance	Pmax (%)	0 ~ +3
Open circuit voltage	Voc (V)	39,40
Short circuit current	Isc (A)	13,90
Voltage at maximum power	Vmpp (V)	32,84
Current at maximum power	Impp (A)	13,40
Module efficiency	ηm (%)	22,00
	10 % Pmpp (W)	484 (+44)
Bifaciality performance increase*	20 % Pmpp (W)	528 (+88)
*depending on Albedo and irradiation conditions at installation site	30 % Pmpp (W)	572 (+132)
Nominal opterating cell temperature	NOCT (°C)	42 +/- 2/°C
Temperature coefficient of Voc	Tk (Voc)	-0,25 %/°C
Temperature coefficient of Isc	Tk (Isc)	+0,048 %/°C
Temperature coefficient of Pmpp	Tk (Pmpp)	-0,29 %/°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 Conitions (STC): air mass 1,5 AM, irradiance 1000 W/m², cell temperature 25°C. STC measuring tolerance: ±3 % (Pmax), ±10 % (Vmax, Impp, VOC, ISC). The beneficiary under the reinsurance policy is soleley BAUER Solar Engineering 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. © 2024 BAUER Solar Engineering GmbH. V4. Effective: 01.05.24

DISTRIBUTION

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