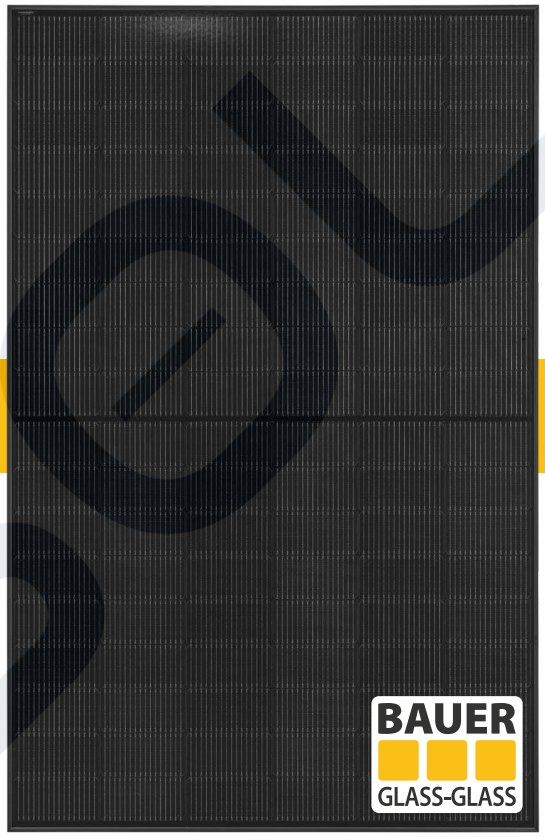
BAUER SOLARTECHNIK

GENERATION N-TYPE M10

BAUER SOLARTECHNIK

GLASS-GLASS BLACK

BS-108M10HBB-GG 435 - 445 W

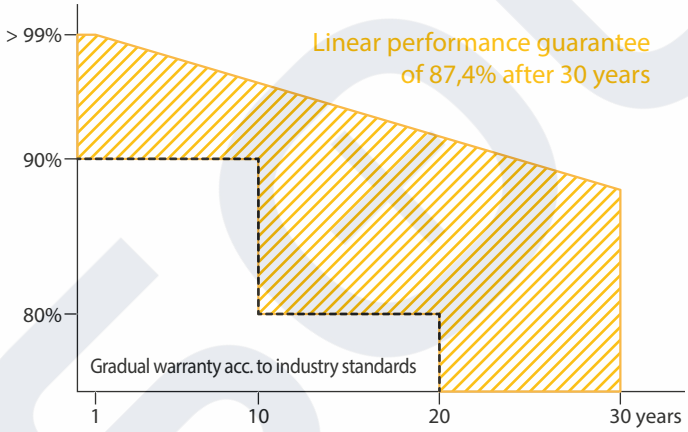


BIFACIAL GLASS-GLASS HALF-CELL MODULE - BLACK

engineered & designed in GERMANY

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

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

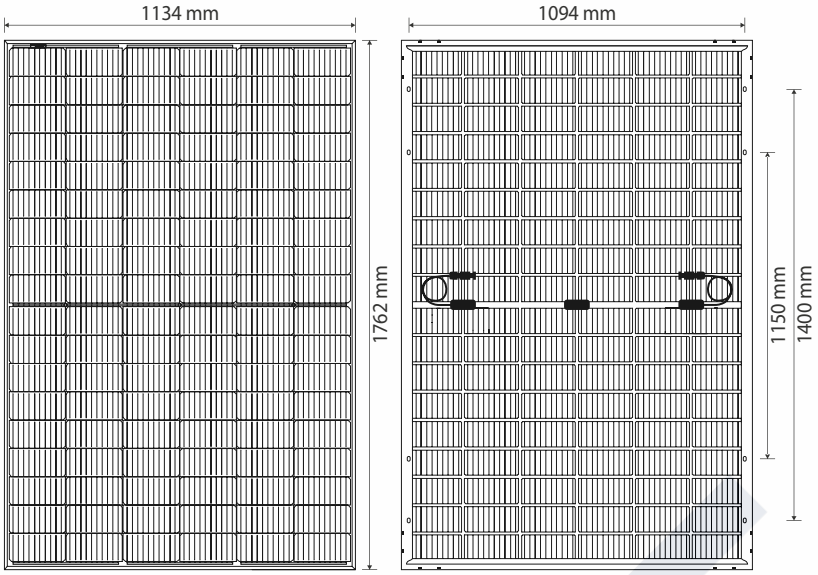
BAUER is reinsured for 30 years of the product's perfomance guarantee

DISTRIBUTION

BAUER Solar GmbH • Hinter der Mühl 2 • 55278 Selzen +49 (0) 6737 - 8081-60 info@bauer-solar.de bauer-solar.de

BAUER SOLARTECHNIK

BAUER GARANTIE+



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GLASS-GLASS BLACK

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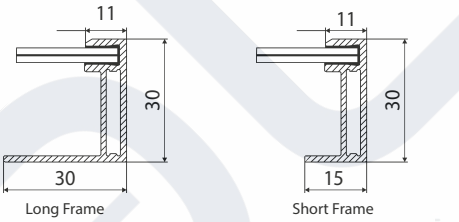

WARRANTIES[1]

30 years product warranty
30 years performance guarantee

PHYSICAL SPECIFICATIONS

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

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

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

ELECTRICAL CHARACTERISTICS[2]

		BS-440-108M10HBB-GG	BS-445-108M10HBB-GG	BS-450-108M10HBB-GG
Maximum power	Pmax (W)	440	445	450
Power output tolerance	Pmax (%)	0 ~ +3	0 ~ +3	0 ~ +3
Open circuit voltage	Voc (V)	39,40	39,60	39,80
Short circuit current	Isc (A)	13,90	13,97	14,04
Voltage at maximum power	Vmpp (V)	32,84	33,04	33,24
Current at maximum power	Impp (A)	13,40	13,47	13,54
Module efficiency	ηm (%)	22,00	22,30	22,50
Bifaciality performance increase* *depending on Albedo and irradiation conditions at installation site	10 % Pmpp (W)	484 (+44)	490 (+45)	495 (+45)
	20 % Pmpp (W)	528 (+88)	534 (+89)	540 (+90)
	30 % Pmpp (W)	572 (+132)	579 (+134)	585 (+135)
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		

[1]Nominal value is specified in the written warranty conditions. A possible light-induced degradation in performance is not taken into account. [2]Values 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.

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