



BAUER SOLARTECHNIK **SUPERBLACK** BS-120M10HBB 445 - 455 W

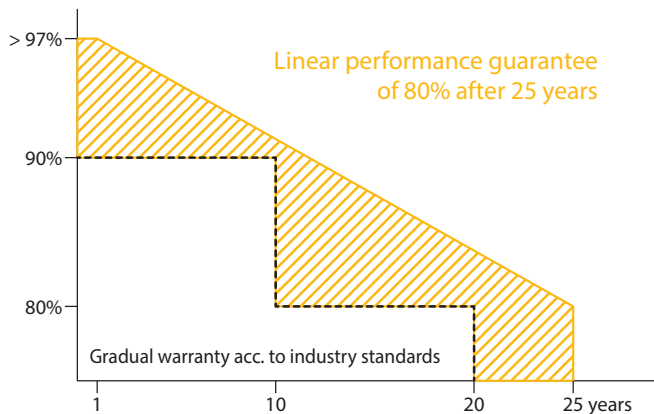


MONOCRYSTALLINE HALF-CELL MODULE - BLACK



BAUER guarantees a minimum performance value of 80% after 25 years for the **SUPERBLACK** glass-foil solar modules.

A comparison of BAUER glass-foil solar modules performance guarantee to conventional glass-foil modules according to industry standards:



PID TEST

The solar cells of this module are tested for Potential-induced Degradation (PID)



CERTIFICATION

Constant in-house quality controls - certified several times over by accredited inspection bodies



HALF-CELL TECHNOLOGY

Double the amount of cells on the same surface area reduces power loss in case of e.g. shadowing



GERMAN GUARANTOR

If necessary, it is guaranteed that a German company takes over any claim settlements



PERFORMANCE GUARANTEE

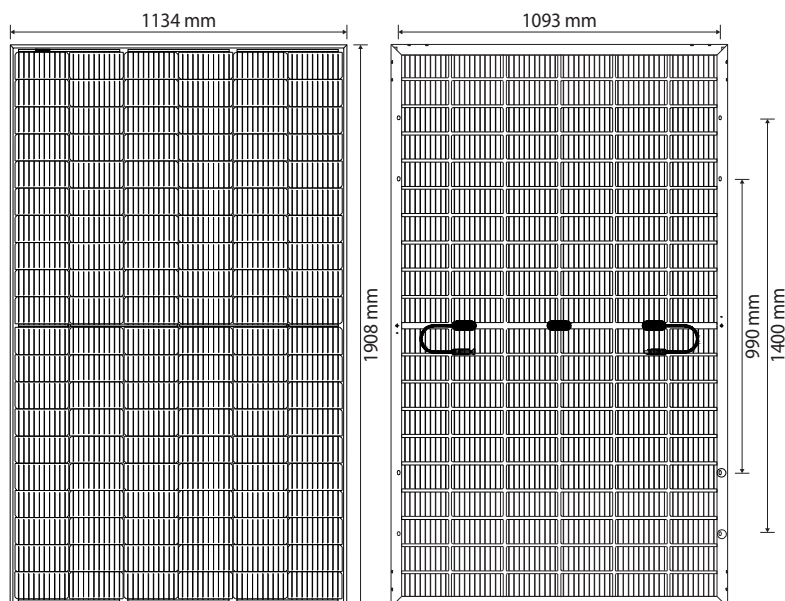
20 year warranty and a linear performance guarantee over a period of 25 years



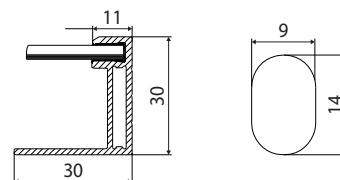
REINSURANCE COVERAGE

BAUER is reinsured for 12 years of the product's warranty and 25 years of the product's performance guarantee

DISTRIBUTION



BAUER SOLARTECHNIK **SUPERBLACK** BS-120M10HBB 445 - 455 W



WARRANTIES¹

20 years product warranty

25 years performance guarantee

PHYSICAL SPECIFICATIONS

Module dimensions	1908 x 1134 x 30 mm
Weight	23,9 kg
Frame	Anodized aluminium alloy (black)
Frontside	Superblack anti-reflection glass, 3,2 mm
Embedding material	EVA
Backside	Foil (black)
Solar Cells	120 monocrystalline PERC half-cells
Bifaciality	-
Junction box	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)
Hail	Ø 25 mm at 23 m/s

CERTIFICATION

IEC 61215, IEC 61730

PACKAGING

Modules per pallet	36
Pallets/modules per truck	24/864

ELECTRICAL CHARACTERISTICS²

		BS-445-120M10HBB	BS-450-120M10HBB	BS-455-120M10HBB
Maximum power	P _{max} (W)	445	450	455
Power output tolerance	P _{max} (%)	0 ~ +3	0 ~ +3	0 ~ +3
Open circuit voltage	V _{oc} (V)	41,90	42,10	42,30
Short circuit current	I _{sc} (A)	13,48	13,56	13,63
Voltage at maximum power	V _{mpp} (V)	34,80	35,00	35,20
Current at maximum power	I _{mpp} (A)	12,79	12,86	12,93
Module efficiency	η _m (%)	20,57	20,80	21,03
Nominal operating cell temperature	NOCT (°C)	45 +/- 2		
Temperature coefficient of Voc	T _k (Voc)	-0,27 %/°C		
Temperature coefficient of Isc	T _k (Isc)	+0,048 %/°C		
Temperature coefficient of P _{mpp}	T _k (P _{mpp})	-0,32 %/°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 mass 1,5 AM, irradiance 1000 W/m², cell temperature 25°C. STC measuring tolerance: ±3 % (P_{max}), ±10 % (V_{max}, I_{mpp}, 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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