BAUER SOLARTECHNIK

SUPERBLACK

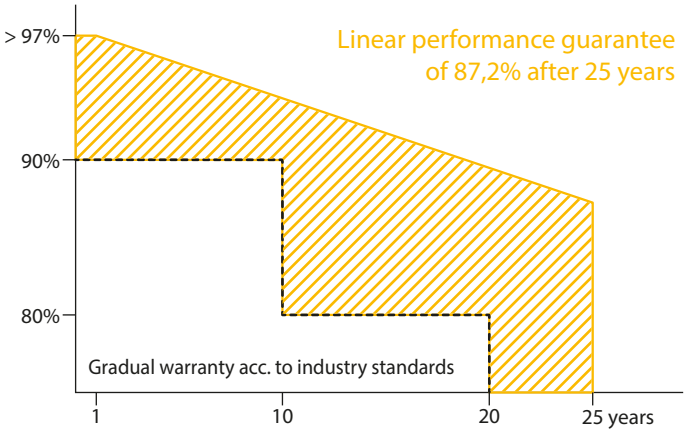
BS-144M10HBB 530 - 540 W

MONOCRYSTALLINE HALF-CELL MODULE - BLACK

Sample

BAUER guarantees a minimum performance value of 87,2% 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

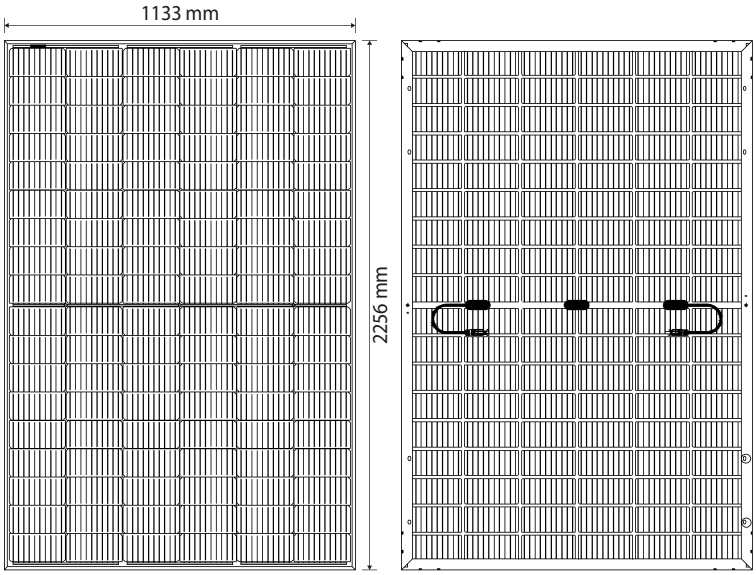
20 year warranty and a linear performance guarantee over a period of 25 years

REINSURANCE COVERAGE

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

DISTRIBUTION

BAUER SOLARTECHNIK



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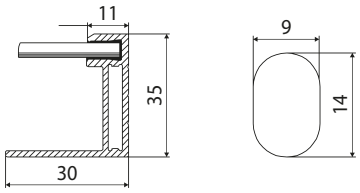

WARRANTIES[1]

20 years product warranty
25 years performance guarantee

PHYSICAL SPECIFICATIONS

Module dimensions	2256 x 1133 x 35 mm
Weight	28,6 kg
Frame	Anodized aluminium alloy (black)
Frontside	Superblack anti-reflection glass, 3,2 mm
Embedding material	EVA
Backside	Foil (black)
Solar Cells	144 monocrystalline 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

Pallets/modules per truck	620

ELECTRICAL CHARACTERISTICS[2]

		BS-530-144M10HBB	BS-535-144M10HBB	BS-540-144M10HBB
Maximum power	Pmax (W)	530	535	540
Power output tolerance	Pmax (%)	0 ~ +3	0 ~ +3	0 ~ +3
Open circuit voltage	Voc (V)	49,35	49,50	49,65
Short circuit current	Isc (A)	13,71	13,78	13,85
Voltage at maximum power	Vmpp (V)	41,35	41,50	41,65
Current at maximum power	Impp (A)	12,82	12,90	12,97
Module efficiency	ηm (%)	20,74	20,93	21,13
Nominal opterating cell temperature	NOCT (°C)	45 +/- 2		
Temperature coefficient of Voc	Tk (Voc)	-0,27 %/°C		
Temperature coefficient of Isc	Tk (Isc)	+0,048 %/°C		
Temperature coefficient of Pmpp	Tk (Pmpp)	-0,32 %/°C		
Maximum system voltage DC (TÜV)	(V)	1000		
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/m^2, cell temperature 25°C. STC measuring tolerance: ±3 % (Pmax), ±10 % (V_{max}, I_{mpp}, V_{OC}, I_{SC}).
The beneficiary under the reinsurance policy is soleley 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.

DISTRIBUTION