

# BAUER

## Solartechnik GmbH

BS-144M6HBB 440 - 450 W



### PERFORMANCE GUARANTEE

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



### CERTIFICATION

Permanent in-house quality control, multiple certifications by accredited inspection bodies



### EFFICIENCY

High efficiency for optimum yield - innovations directly influence the production process



### POSITIVE POWER TOLERANCE

Exclusive delivery of solar modules with positive power tolerance only



### PERC HALF-CELL TECHNOLOGY

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



### WEATHERPROOF

Standardized mechanical load test guards against damage from wind and weather



### GERMAN GUARANTOR

In case of need it is ensured that a German company assumes the claim settlement



### SAFETY

High-quality components ensure maximum protection in all weather conditions



### PID TEST

The solar cells of our high performance modules are tested for PID



### REINSURANCE COVERAGE

The cooperation with the insurance company is guaranteeing even higher levels of financial stability & reliability - BAUER is insured for 12 years of the product's warranty and 25 years of the product's performance guarantee



# BS-144M6HBB



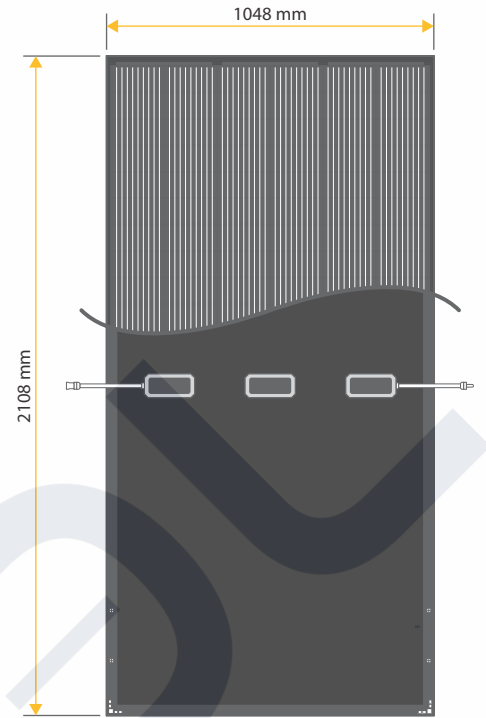
FRONTSIDE



BACKSIDE

PROVEN & GUARANTEED BY  
**BAUER SOLARTECHNIK**  
HIGH QUALITY STANDARDS BY GERMAN ENGINEERS

# BS-144M6HBB 440 - 450 W



## MECHANICAL DATA

Module dimensions	2108 × 1048 × 35mm
Weight	24,4 kg
Frame	Anodized aluminium alloy (black)
Frontside	White toughened safety glass, 3,2 mm
Embedding material	EVA
Backside	Foil (black)
Solar cells	144 monocrystalline PERC half-cells
Connection	IP ≥ 68, 3 bypass diodes
Cable & connector	1x4 mm <sup>2</sup> , 500 mm, MC4 compatible

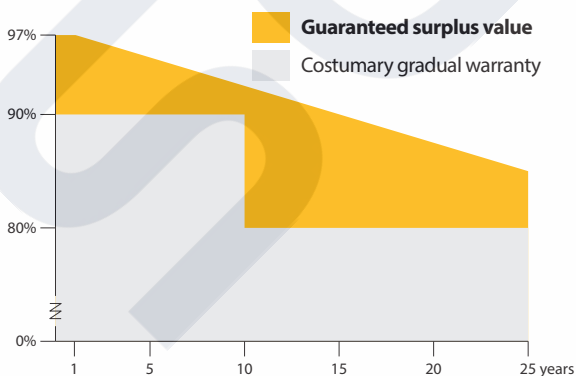
## OPERATIONAL CONDITIONS

Operating temperature	-40 to 85°C
Static load	5400 Pa (snow/wind)
Hail	Ø 25 mm at 23 m/s

## ELECTRICAL DATA<sup>1</sup>

		BS-440-144M6HBB	BS-445-144M6HBB	BS-450-144M6HBB
Maximum power	P <sub>max</sub> (W)	440	445	450
Power output tolerance	P <sub>max</sub> (%)	0 ~ +3	0 ~ +3	0 ~ +3
Open circuit voltage	V <sub>oc</sub> (V)	49,60	49,80	50,00
Short circuit current	I <sub>sc</sub> (A)	11,34	11,42	11,50
Voltage at max. power	V <sub>mpp</sub> (V)	41,00	41,20	41,40
Current at max. power	I <sub>mpp</sub> (A)	10,74	10,81	10,87
Module efficiency	η <sub>m</sub> (%)	19,92	20,14	20,37
Nominal operating cell temperature	NOCT (°C)	45 ± 2		
Temperature coefficient of V <sub>oc</sub>	T <sub>k</sub> (V <sub>oc</sub> )	-0,270 %/°C		
Temperature coefficient of I <sub>sc</sub>	T <sub>k</sub> (I <sub>sc</sub> )	+0,048 %/°C		
Temperature coefficient of P <sub>mpp</sub>	T <sub>k</sub> (P <sub>mpp</sub> )	-0,350 %/°C		
Maximum system voltage DC (TÜV)	(V)	1000		
Maximum series fuse rating	(A)	30		

## LINEAR PERFORMANCE GUARANTEE



## WARRANTY CONDITIONS<sup>2</sup>

Product warranty	20 years
Performance guarantee	25 years (min. 85% after 25 years)

## QUALIFICATION & CERTIFICATION

IEC 61215	  
IEC 61730	

## PACKAGING UNITS

Modules per truck	682 pcs
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<sup>1</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>mpp</sub>, V<sub>OC</sub>, I<sub>SC</sub>). <sup>2</sup>Nominal value is specified in the written warranty conditions. A possible light-induced degradation in power is not taken into account. The beneficiary under the reinsurance policy of MunichRe is solely Bauer Solar GmbH. Please contact us to get information on how this insurance coverage benefits you as a customer. Note: Please read safety instructions and installation manual before using this product. Subject to change. © 2021 Bauer Solar GmbH. Effective 7th of december 2021.



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