

# BAUER

## Solartechnik GmbH

**BS-6MHB5-GG** 440 - 450 W  
glass/glass - white



### PERFORMANCE GUARANTEE

30 years of product warranty and a linear performance guarantee over a period of 30 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



### N-TYPE BIFACIAL TECHNOLOGY

Double-sided solar cells and a transparent back side increase the potential power output by up to 30%



### 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-M6HB-GG

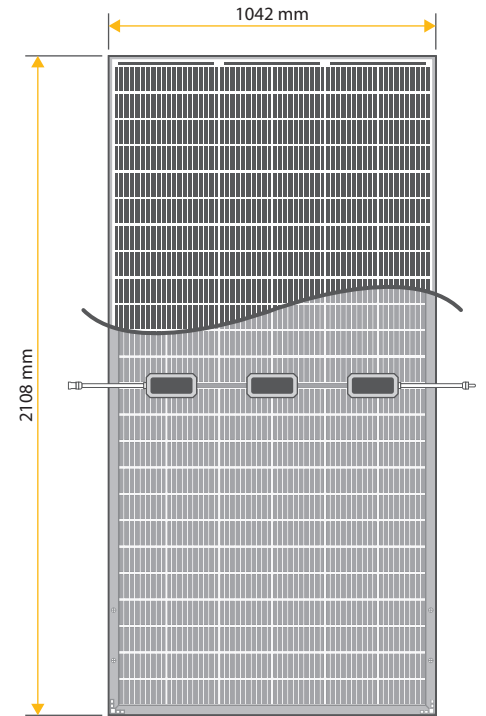
FRONTSIDE

BACKSIDE

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

# BS-6MHB5-GG 440 - 450 W

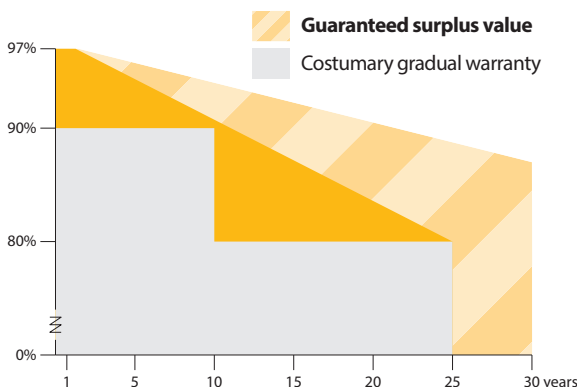
MECHANICAL DATA	
Module dimensions	2108 x 1042 x 30 mm
Weight	28,0 kg
Frame	Anodized aluminium alloy (silver)
Frontside	Glass with anti-reflection technology
Embedding material	EVA
Backside	Glass with anti-reflection technology
Solar cells	144 monocrystalline n-type bifacial half-cells 9BB
Bifaciality	80% (bifaciality coefficient = $P_{\max}$ backside (STC) / $P_{\max}$ frontside (STC), tolerance: $\pm 5\%$ )
Connection	IP $\geq$ 68, 3 bypass diodes
Cable & connector	1x4 mm <sup>2</sup> , 1400 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-440-6MHB5-GG	BS-445-6MHB5-GG	BS-450-6MHB5-GG
Maximum power	$P_{\max}$ (W)	440	445	450
Power output tolerance	$P_{\max}$ (%)	0 ~ +3	0 ~ +3	0 ~ +3
Open circuit voltage	$V_{oc}$ (V)	49,60	49,80	50,00
Short circuit current	$I_{sc}$ (A)	11,29	11,36	11,43
Voltage at max. power	$V_{mpp}$ (V)	41,20	41,40	41,60
Current at max. power	$I_{mpp}$ (A)	10,68	10,75	10,82
Module efficiency	$\eta_m$ (%)	20,03	20,26	20,49
Nominal operating cell temperature	NOCT (°C)	42 $\pm$ 2		
Temperature coefficient of $V_{oc}$	$T_k (V_{oc})$	-0,260 %/°C		
Temperature coefficient of $I_{sc}$	$T_k (I_{sc})$	+0,046 %/°C		
Temperature coefficient of $P_{mpp}$	$T_k (P_{mpp})$	-0,320 %/°C		
Maximum system voltage DC (TÜV)	(V)	1500		
Maximum series fuse rating	(A)	25		




## LINEAR PERFORMANCE GUARANTEE



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

Product warranty	30 years
Performance guarantee	30 years (min. 87% after 30 years)

## QUALIFICATION & CERTIFICATION

IEC 61215	  
IEC 61730	

## PACKAGING UNITS

Modules per pallet	30 pcs
Modules per truck	660 pcs

<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:  $\pm 3\%$  ( $P_{\max}$ ),  $\pm 10\%$  ( $V_{\max}$ ,  $I_{mpp}$ ,  $V_{oc}$ ,  $I_{sc}$ ). <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 Energiekonzepte 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. © 2020 Bauer Energiekonzepte GmbH. Effective 30th of march 2021.

