

Solartechnik GmbH

BS-144M6HBB-GG 440 - 450 W glass/glass - transparent - black frame



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



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



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



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 perfomance guarantee



BS-144M6HBB-GG





BACKSIDE

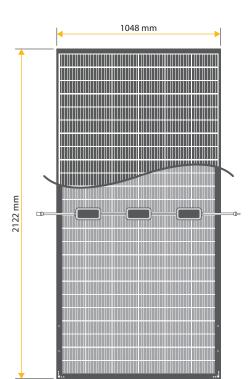


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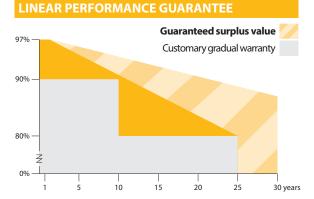
MECHANICAL DATA			
Module dimensions	2122 x 1048 x 35mm		
Weight	27.8 kg		
Frame	Anodized aluminium alloy (black)		
Frontside	High transparency, antireflection coated, semi-toughened safety glass, 2mm		
Embedding material	EVA		
Backside	Glazed & semi-toughened safety glass, 2mm		
Solar cells	144 monocrystalline PERC bifacial half-cells		
Bifaciality	70% (bifaciality coefficient = P_{max} backside (STC) / P_{max} frontside (STC), tolerance: ±1		
Connection	$IP \ge 68, 3$ bypass diodes		
Cable & connector	1x4 mm ² , 1300 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 ¹		BS-440-144M6HBB-GG	BS-445-144M6HBB-GG	BS-450-144M6HBB-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)	49.0	49.20	49.40
Short circuit current	Isc (A)	11.36	11.44	11.52
Voltage at max. power	V _{mpp} (V)	40.80	41.00	41.20
Current at max. power	Impp (A)	10.79	10.86	10.93
Module efficiency	η _m (%)	19.79	20.01	20.24
Nominal operating cell temperature	NOCT (°C)	45 ± 2		
Temperature coefficient of Voc	Tk (Voc)	-0.260 %/°C		
Temperature coefficient of Isc	T _k (I _{sc})	+0.054 %/°C		
Temperature coefficient of Pmpp	Tk (Pmpp)	-0.320 %/°C		
Maximum system voltage DC (TÜV)	(V)	1500		
Maximum series fuse rating	(A)		20	
Bifaciality performance increase:* *depending on Albedo and irradiation conditions at the installation site	10% P _{mpp} (W)	484 (+44)	489 (+44)	495 (+45)
	20% P _{mpp} (W)	528 (+88)	534 (+89)	540 (+90)
	30% Pmpp (W)	572 (+132)	578 (+133)	585 (+135)



WARRANTY CONDITIONS ²			
Product warranty	30 years		
Performance guarantee	30 years (min. 87% after 30 years)		

QUALIFICATION 8	CERTIFICATION	
IEC 61215	IEC 61730	
Fire Class A		

PACKAGING UNITS

Modules per container 660 pcs

¹Values under Standard Test Conditions (STC): air mass 1.5 AM, irradiance 1000 W/m², cell temperature 25°C. STC measuring tolerance: $\pm 3 \%$ (Pmax), $\pm 10 \%$ (Vmax, Impp, VOC, ISC). ²Nominal 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. © 2022 CANSOLAR Corp. and Bauer Solar GmbH. Effective 28th of january 2022.





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