



BS-144M10HBB 540 - 550 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

EFFICIENCY

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



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%



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 BAUER has reinsured the performance guarantee with a german insurance company for 30 years



BS-144M10HBB-GG





#3300, 205 - 5 Ave SW, Calgary, AB Canada. T2P 2V7

Phone: +1 (403) 439-5843

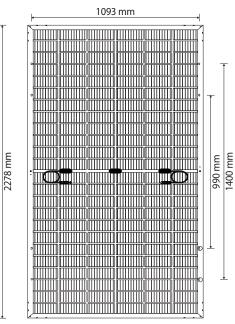
Email: info@cansolarcorp.com Web: https://cansolarcorp.com



MECHANICAL DATA			
Module dimensions	2278 x 1134 x 35 mm		
Weight	32.7 kg		
Frame	Anodized aluminium alloy (black)		
Frontside	Anti-reflection safety glass, semi-toughened, 2 mm		
Embedding material	EVA		
Backside	Anti-reflection safety glass, semi-toughened, 2 mm		
Solar cells	144 monocrytalline bifacial half-cells		
Bifaciality	$70\% ({\rm bifaciality\ coefficient} = {\rm Pmax\ backside\ (STC)} \ / \ {\rm Pmax\ frontside\ (STC)}, tolerance: \pm 10\%)$		
Connection	$IP \ge 68, 3$ bypass diodes		
Cable & connector	1x4 mm ² , 1300 mm, MC4 compatible		

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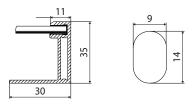
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WARRANTY CONDITIONS ²					
Product warranty	30 years				
Performance guarantee	30 years (min. 87,4% after 30 years)				
OPERATIONAL CONDITIONS					
Operating temperature	-40 to 85°C				
Static load	5400 Pa (snow/wind/ice)				
Hail	Ø 25 mm at 23 m/s				
QUALIFICATION & CERTIFICATION					
IEC 61215, IEC 61730, Fire Class A IEC 61730-2					
PACKAGING UNITS					
Modules per container 600 pcs					

BAUER SOLARTECHNIK

PREMIUM PROTECT BS-144M10HBB 540 - 550 W



ELECTRICAL DATA ¹		BS-540-144M10HBB-GG	BS-545-144M10HBB-GG	BS-550-144M10HBB-GG
Maximum power	P _{max} (W)	540	545	550
Power output tolerance	P _{max} (%)	0 ~ +3	0 ~ +3	0 ~ +3
Open circuit voltage	V _{oc} (V)	49.65	49.81	49.92
Short circuit current	I _{sc} (A)	13.85	13.92	13.99
Voltage at max. power	V _{mpp} (V)	41.65	41.80	42.00
Current at max. power	Impp (A)	12.97	13.04	13.10
Module efficiency	η _m (%)	20.90	21.10	21.29
Nominal operating cell temperature	NOCT (°C)	45 ± 2		
Temperature coefficient of Voc	Tk (Voc)	-0.270 %/°C		
Temperature coefficient of Isc	T _k (I _{sc})	+0.048 %/°C		
Temperature coefficient of Pmpp	Tk (Pmpp)	-0.320 %/°C		
Maximum system voltage DC (TÜV)	(V)	1500		
Maximum series fuse rating	(A)	30		
Bifaciality performance increase:* *depending on Albedo and irradiation conditions at the installation site	10% P _{mpp} (W)	594 (+54)	599 (+54)	605 (+55)
	20% P _{mpp} (W)	648 (+108)	654 (+109)	660 (+110)
	30% P _{mpp} (W)	702 (+162)	708 (+163)	715 (+165)

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 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. © 2023 Bauer Solar GmbH. Effective 4th of April 2023.





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