



TOP CON N - TYPE M12

BAUER SOLARTECHNIK

HAILPROTECT COMMERCIAL

BS-132M12HBW-GG 615 - 625 W

BIFACIAL GLASS-GLASS HALF-CELL MODULE

BAUER SOLAR GERMANY



GRADE "A" N-TYPE BIFACIAL HALF CELLS

Only Grade "A" half-cells are used in the production of all BAUER solar modules and only the blackest are selected. Up to 30% increase in yield through bifacial cells active on both sides and a glass backside.



LOW LIGHT PERFORMANCE

Stronger performance in low lighting conditions than PERC modules, such as overcast days, mornings and evenings helping to ensure a higher energy output than PERC every day.



STABILITY & DURABILITY

3.2 x 2 mm tempered anti-reflective solar glass; dirt-repellent, scratch-resistant, durable and shock-proof.



CERTIFICATION

Constant in-house quality controls - certified several times over by accredited inspection bodies.



FIRE CLASS A

Maximum fire protection through double glazing according to the highest security requirements.



WARRANTY & GUARANTEE

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



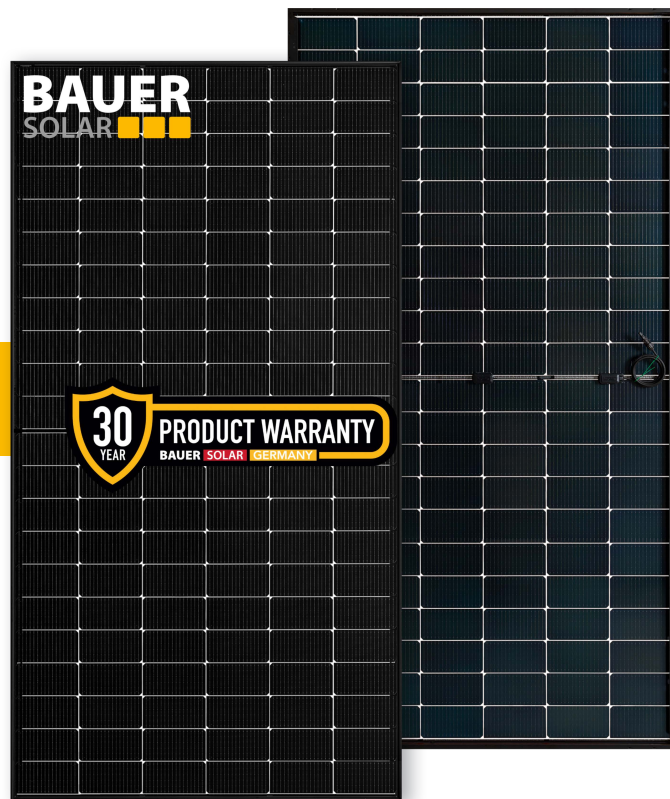
GERMAN GUARANTOR

If necessary, it is guaranteed that a German company takes over any claim settlements.



REINSURANCE COVERAGE

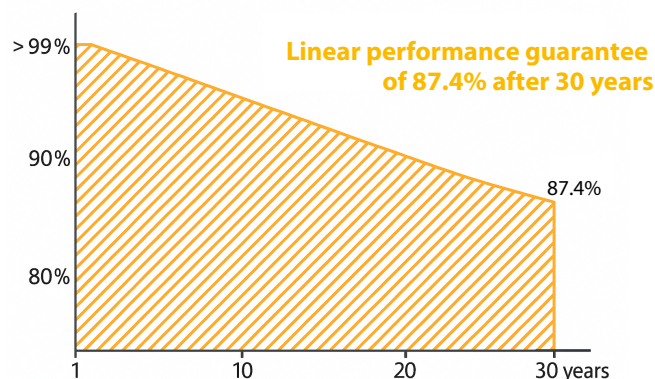
BAUER is re-insured with Munich RE for 15 years of the product warranty & 30 years of the performance guarantee.

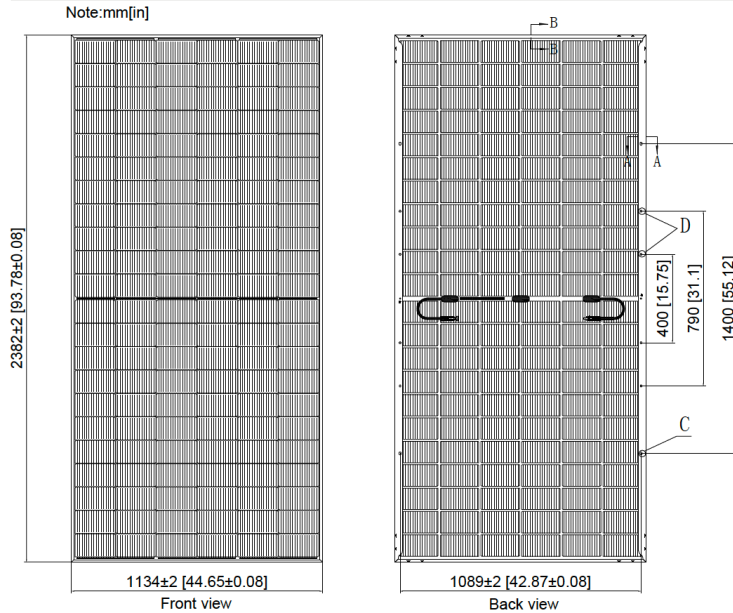


BAUER GUARANTEE +

Our extended guarantee covers the module guarantee and a lump-sum compensation for the replacement of a defective module (Guarantee conditions as of 01.12.2023).

BAUER guarantees a minimum performance value of 87.4% after 30 years for the **HAILPROTECT COMMERCIAL** glass-glass solar modules.

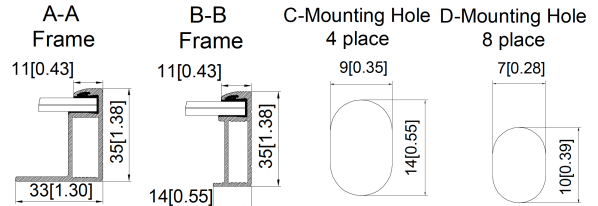




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PHYSICAL SPECIFICATIONS

Module dimensions	2382 x 1134 x 35 mm
Weight	41.6 kg
Frame	Black anodized aluminum profile
Frontside	AR-coated, fully tempered glass, 3.2 mm
Embedding material	EVA
Backside	White-glazed & heat-strengthened glass, 2 mm
Solar cells	132 monocrystalline N-type bifacial half-cells
Bifaciality	80 % ± 10 %
Junction box(es)	IP68, 3 bypass diodes
Cable & connector	4 mm ² , 1300 mm, Stäubli MC4/EVO2A

WARRANTIES¹

30 year product warranty

30 year performance guarantee

OPERATING CONDITIONS

Operating temperature	-40 to 85°C
Static load	5400 Pa (snow/wind/ice)
Hail test	Ø 45 mm at ~ 31 m/s

CERTIFICATION

IEC 61215, 61730-1/2, 61701 (Salt mist), 62716 (Ammonia)

CSA; Fire Class: A (USA); UL Type 29

PACKAGING

Modules per pallet	30
Pallets/modules per truck	20/600

ELECTRICAL CHARACTERISTICS²

		BS-615-132M12HBW-GG	BS-620-132M12HBW-GG	BS-625-132M12HBW-GG
Maximum power	P _{max} (W)	615	620	625
Power output tolerance	P _{max} (%)	0 ~ +3	0 ~ +3	0 ~ +3
Open circuit voltage	V _{oc} (V)	48.50	48.70	48.90
Short circuit current	I _{sc} (A)	15.90	15.95	16.00
Voltage at maximum power	V _{mpp} (V)	41.03	41.23	41.45
Current at maximum power	I _{mpp} (A)	14.99	15.04	15.08
Module efficiency	η _m (%)	22.77	22.95	23.14
Bifaciality performance increase*	10 % P _{mpp} (W)	676.5 (+61.5)	682 (+62)	687.5 (+67.5)
	20 % P _{mpp} (W)	738 (+123)	744 (+124)	750 (+125)
	30 % P _{mpp} (W)	799.5 (+184.5)	806 (+186)	812.5 (+187.5)
Nominal operating cell temperature	NOCT (°C)	45 +/- 2		
Temperature coefficient of V _{oc}	T _k (V _{oc})	-0.24 %/°C		
Temperature coefficient of I _{sc}	T _k (I _{sc})	+0.04 %/°C		
Temperature coefficient of P _{mpp}	T _k (P _{mpp})	-0.29 %/°C		
Maximum system voltage DC (TÜV)	(V)	1500		
Maximum series fuse rating	(A)	30		

*depending on Albedo and irradiation conditions at installation site

¹Nominal value is specified in the written warranty conditions. A possible light-induced degradation in performance is not taken into account.

²Values under Standard Test Conditions (STC): air pressure 1.5 AM, irradiance 1000 W/m², cell temperature 25°C. STC measuring tolerance: ±3 % (P_{max}), ±10 % (V_{mpp}, I_{mpp}, V_{oc}, I_{sc}). The beneficiary under the reinsurance policy is solely Bauer Solar Engineering GmbH. Please contact us to get information on how this insurance coverage benefits you as a customer.

Note: please read the installation manual before using this product. Subject to change.

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