

BAUER

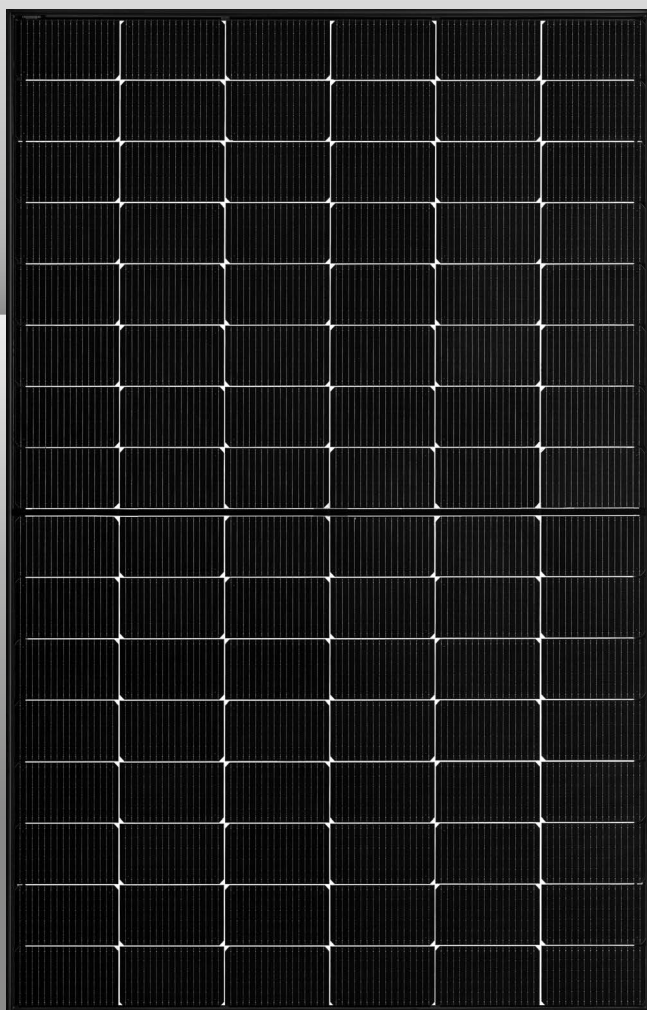
SOLAR



BAUER SOLARTECHNIK

GLASS-GLASS PERFORMANCE

BS-96G12HBW-GG 465 - 475 W



GENERATION N-TYPE G12



engineered & designed in
GERMANY



BAUER GUARANTEE +

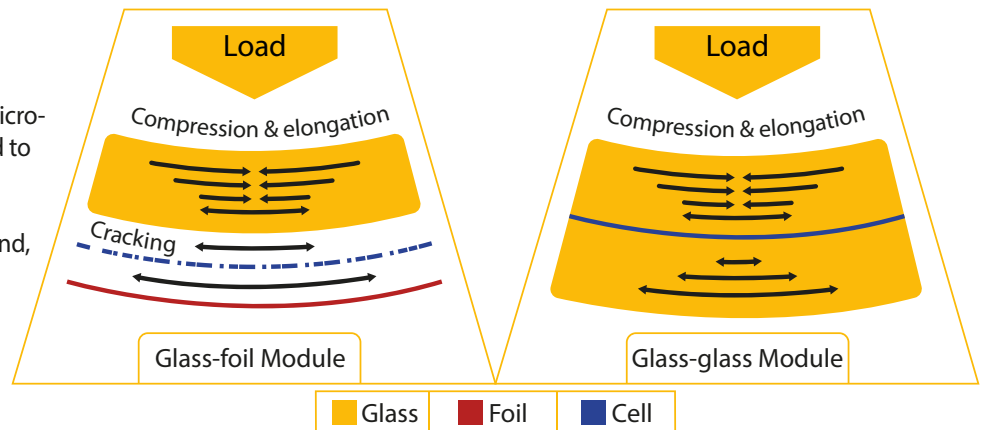
COMPREHENSIVE PROTECTION FOR SYSTEM OPERATORS

Our extended guarantee covers the module guarantee and a fixed-sum compensation for any replacement of a defective module (Guarantee conditions as of 2023/12/01).

AVOID MICROCRACKS

In glass-foil modules, stress causes microcracks to form in cells, which can lead to performance losses in the long term.

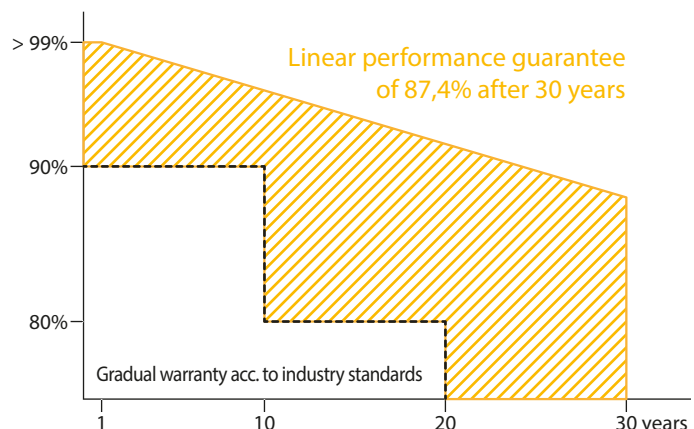
Glass-glass modules, on the other hand, distribute pressure and tensile forces more evenly, significantly reducing the risk of microcracks.



LINEAR PERFORMANCE GUARANTEE

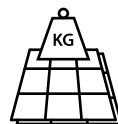
BAUER guarantees a minimum performance value of 87,4% after 30 years for glass-glass solar modules.

The guaranteed value of BAUER glass-glass solar modules as illustrated in the shown graphic compared to conventional glass-foil modules according to industry standards:



FIRE CLASS A

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



STABILITY & DURABILITY

2 x 2 mm tempered anti-reflective solar glass: dirt-repellent, scratch-resistant, durable and shock-proven



BIFACIAL N-TYPE TOPCON HALF-CELLS

Up to 30% increase in yield through bifacial cells active on both sides and a transparent backside



GERMAN GUARANTOR

It is guaranteed that a German company takes over any claim settlements, if necessary.



PERFORMANCE GUARANTEE

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



REINSURANCE COVERAGE

BAUER is reinsured for 30 years of the product's performance guarantee

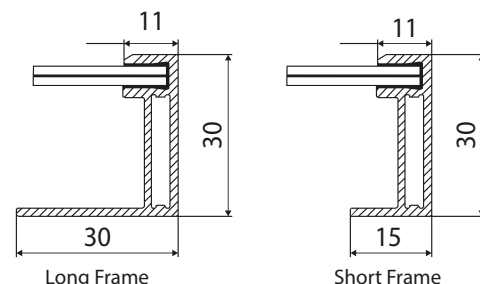
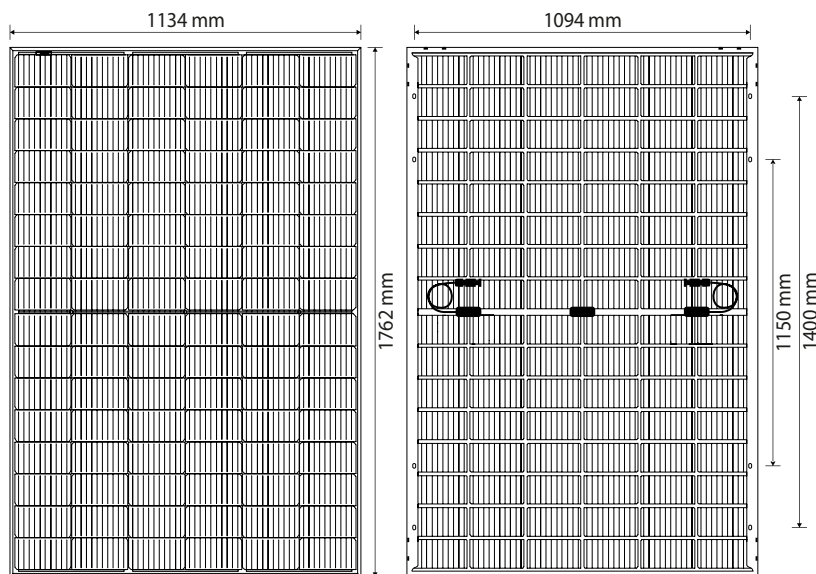
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Our company has an excellent solvency.
Learn more:
www.creditreform.de/crefozert



PHYSICAL SPECIFICATIONS

Module dimensions	1762 x 1134 x 30 mm
Weight	24,0 kg
Frame	Anodized aluminium alloy (black)
Frontside	Premium Protect anti-reflection glass, 2 mm
Embedding material	EVA
Backside	White coated anti-reflection glass, 2 mm
Solar cells	96 monocrystalline N-type bifacial half-cells
Bifaciality	80 % ± 5 %
Junction box(es)	IP68, 3 bypass diodes
Cable & connector	1x4 mm ² , 1300 mm, MC4 compatible

WARRANTIES¹

30 years product warranty
30 years performance guarantee

OPERATING CONDITIONS

Operating temperature	-40 to 85°C
Static load	up to 6100 Pa
Hail test	HW3 Ø 30 mm at ~ 24 m/s

CERTIFICATION

IEC 61215, IEC 61730, Fire class A acc. IEC 61730-2
IEC 61701 (Salt mist), IEC 62716 (Ammonia)

PACKAGING

Modules per pallet	36
Pallets/modules per truck	26/936

ELECTRICAL CHARACTERISTICS²

		BS-465-96G12HBW-GG	BS-470-96G12HBW-GG	BS-475-96G12HBW-GG
Maximum power	P _{max} (W)	465	470	475
Power output tolerance	P _{max} (%)	0 ~ +3	0 ~ +3	0 ~ +3
Open circuit voltage	V _{oc} (V)	36,46	36,60	36,74
Short circuit current	I _{sc} (A)	15,88	15,93	15,98
Voltage at maximum power	V _{mpp} (V)	31,21	31,47	31,68
Current at maximum power	I _{mpp} (A)	14,91	14,95	14,99
Module efficiency	η _m (%)	23,30	23,50	23,80
Bifaciality performance increase				
Weakly reflective surface e.g. grass, roof tiles	10 % P _{mpp} (W)	512 (+47)	517 (+47)	523 (+48)
Well reflecting surface e.g. sand, light-colored gravel	20 % P _{mpp} (W)	558 (+93)	564 (+94)	570 (+95)
Highly reflective surface e.g. ice, snow	30 % P _{mpp} (W)	605 (+140)	611 (+141)	618 (+143)
Nominal operating cell temperature	NOCT (°C)	42 +/- 2/°C		
Temperature coefficient of V _{oc}	T _k (V _{oc})	-0,25 %/°C		
Temperature coefficient of I _{sc}	T _k (I _{sc})	+0,048 %/°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		

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 mass 1,5 AM, irradiance 1000 W/m², cell temperature 25°C. STC measuring tolerance: ±3 % (P_{max}), ±10 % (V_{max}, 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 safety instructions and installation manual before using this product. Subject to change.
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DISTRIBUTION



With the CrefoZert certification, BAUER Solar is among the top 2% of all companies in Germany in terms of financial strength. For you as a customer, this means maximum security, reliability, and a long-term partner you can count on. The certification confirms our stable financial base and sustainable business practices – a guarantee that we will continue to be a reliable partner for you now and in the future.

THE ENTIRE PACKAGE



- Security thanks to over 20 years of experience in the PV sector
- Growth and prospects with excellent credit rating
- Industry-leading product and performance guarantee
- Maximum yields and reliability thanks to the highest quality
- Individual and customised advice for every area of application

THE EXPERTISE



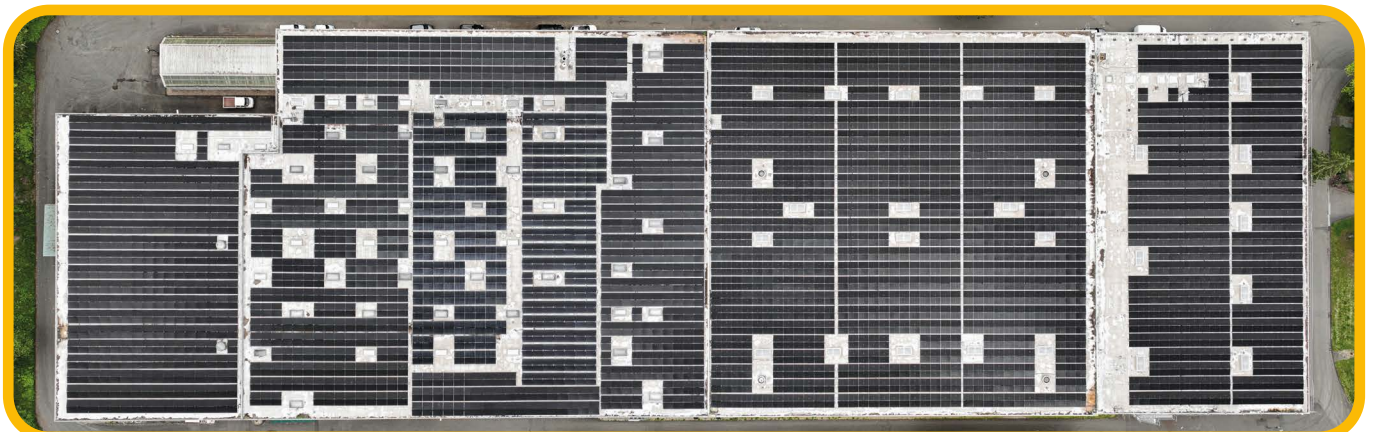
- Industry pioneer since 1985 with over 39 years of company history
- More than 20 years of experience in the photovoltaic industry
- Owner-managed throughout two generations
- More than 4,000 MW of installed and sold module capacity
- 6000 m² of warehouse space for our international customers

THE PROMISE



- The latest generation of solar modules with innovative technology
- Strict quality controls and product tests
- Customised solar solutions for all areas of application
- Close, trusting and reliable partnerships
- Availability and punctual deliveries

We have been supplying our international customers with premium solar modules for more than 20 years. As a pioneer in the industry, we are pursuing our path towards sustainable energy generation with conviction and the power of the sun. Today, we are still a family-run company and stand for financial solidity, sustainable growth and close partnerships.



BAUER SOLAR – RELIABLE LIKE THE SUN