

BAUER

SOLAR



BAUER SOLARTECHNIK

GLASS-GLASS PURE BACK CONTACT

BS-108M10BCBT-GG 485 - 495 W



GENERATION BACK CONTACT



engineered & designed in
GERMANY



BAUER GUARANTEE

COMPREHENSIVE PROTECTION FOR SYSTEM OPERATORS

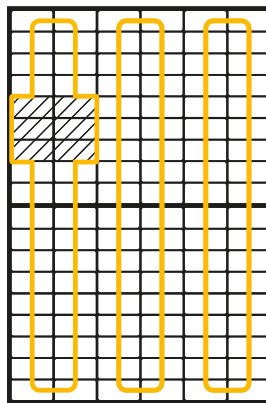
Our extended guarantee covers the module guarantee and a fixed-sum compensation for any replacement of a defective module (Guarantee conditions as of 2023/12/01).

ANTI SHADING TECHNOLOGIE

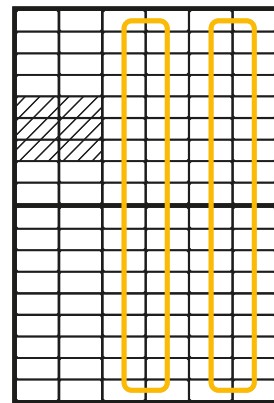
In conventional modules, bypass diodes lead to significant yield losses in the event of partial shading.

BAUER Solar's back-contact modules overcome this through intelligent bipolar passivation, which flexibly reroutes the current, minimizes power losses, and prevents hotspots without bypass diodes.

BACK CONTACT SOLAR MODULE



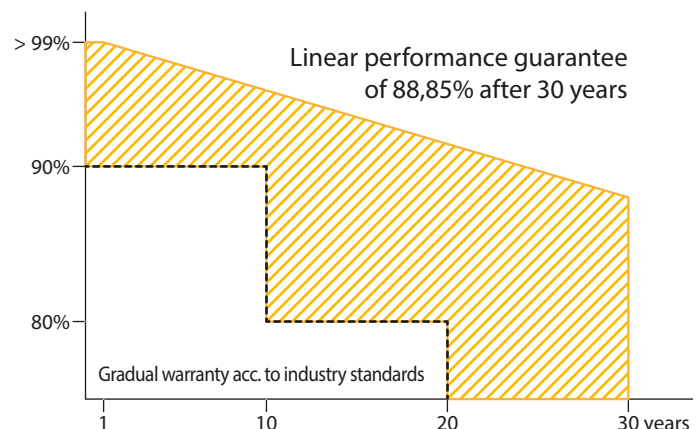
STANDARD SOLAR MODULE



LINEAR PERFORMANCE GUARANTEE

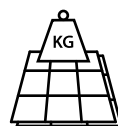
BAUER guarantees a minimum performance value of 88,85% after 30 years for glass-glass solar modules.

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



BACK CONTACT BIFACIAL HALF-CELLS

Bifacial half-cut cells with back contacts maximize light absorption for maximum yields and aesthetics.



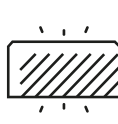
GERMAN GUARANTOR

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



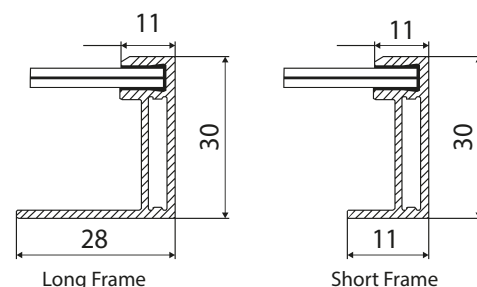
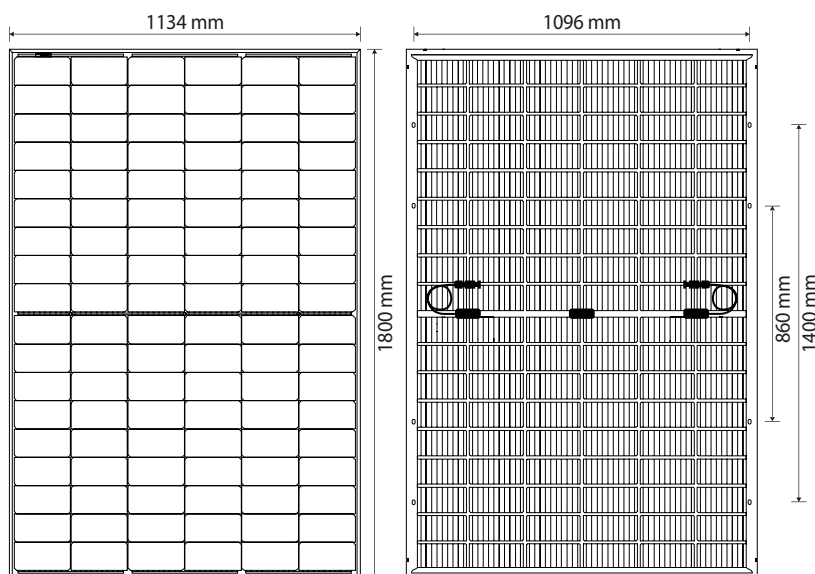
PERFORMANCE GUARANTEE

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



ANTI SHADING TECHNOLOGY

Minimizes power losses and keeps solar yield stable even under partial shading

**PHYSICAL SPECIFICATIONS**

Module dimensions	1800 x 1134 x 30 mm
Weight	24,8 kg
Frame	Anodized aluminium alloy (black)
Frontside	Premium Protect anti-reflection glass, 2 mm
Embedding material	EVA
Backside	Premium Protect anti-reflection glass, 2 mm
Solar cells	108 back contact bifacial half-cells
Bifaciality	70 % ± 5 %
Junction box(es)	IP68, 3 bypass diodes
Cable & connector	1x4 mm ² , 1200 mm, Stäubli MC4/EVO2A

WARRANTIES¹

30 years product warranty

30 years performance guarantee

OPERATING CONDITIONS

Operating temperature	-40 to 85°C
Static load	up to 5400 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	37
Pallets/modules per truck	24/888

ELECTRICAL CHARACTERISTICS²

		BS-485-108M10BCBT-GG	BS-490-108M10BCBT-GG	BS-495-108M10BCBT-GG
Maximum power	P _{max} (W)	485	490	495
Power output tolerance	P _{max} (%)	0 ~ +3	0 ~ +3	0 ~ +3
Open circuit voltage	V _{oc} (V)	40,89	41,02	41,15
Short circuit current	I _{sc} (A)	15,03	15,10	15,17
Voltage at maximum power	V _{mpp} (V)	33,94	34,04	34,14
Current at maximum power	I _{mpp} (A)	14,30	14,40	14,50
Module efficiency	η _m (%)	23,80	24,00	24,30
Bifaciality performance increase				
Weakly reflective surface e.g. grass, roof tiles	10 % P _{mpp} (W)	534 (+49)	539 (+49)	545 (+50)
Well reflecting surface e.g. sand, light-colored gravel	20 % P _{mpp} (W)	582 (+97)	588 (+98)	594 (+99)
Highly reflective surface e.g. ice, snow	30 % P _{mpp} (W)	631 (+146)	637 (+147)	644 (+149)
Nominal operating cell temperature	NOCT (°C)	45 +/- 2/°C		
Temperature coefficient of V _{oc}	T _k (V _{oc})	-0,22 %/°C		
Temperature coefficient of I _{sc}	T _k (I _{sc})	+0,05 %/°C		
Temperature coefficient of P _{mpp}	T _k (P _{mpp})	-0,26 %/°C		
Maximum system voltage DC (TÜV)	(V)	1500		
Maximum series fuse rating	(A)	25		

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