

powered by



BIFACIALITY

Max. bifaciality thanks to highly efficient cell rear side and transparent gaps.



STABILITY

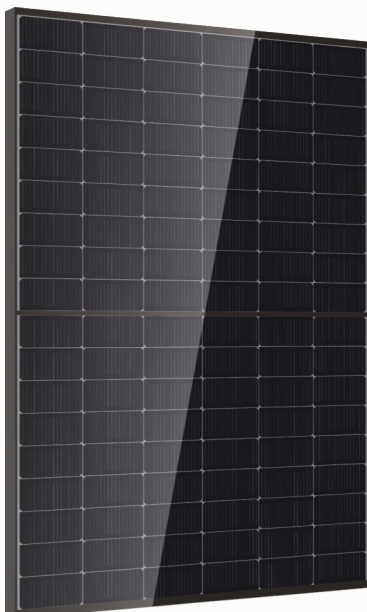
2 x 2mm heat strengthened glass with anti-reflective coating



PERFORMANCE

445 Wp module power and efficiency of 22.3 %

ZEUS 1.0 108 M



Discover our latest innovation!

Zeus 1.0 - our latest solar module for outstanding performance and efficiency with an improved temperature coefficient and optimized bifaciality. Our Zeus 1.0 module delivers excellent results even at weak light conditions.

A good choice - With its good price to performance ratio, the module guarantees a reliable and sustainable energy supply in the long term.

30 years warranty

ZEUS 1.0 108 M 445Wp Black Frame

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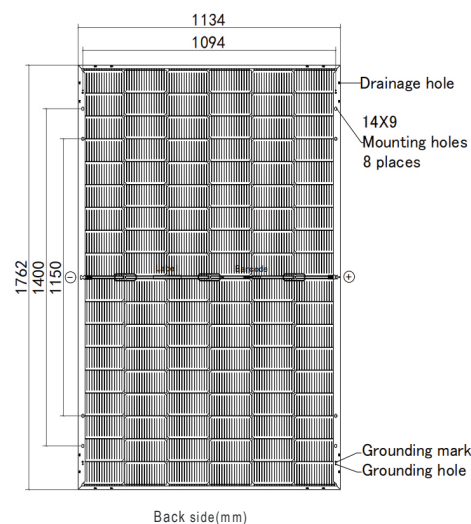
Module Specification

Cell Type	M10 n-type monocrystalline, TOPCon, 108 half cut cells
Dimensions (mm)	1762 x 1134 x 30
Weight (kg)	24.5
Front Cover	2mm heat strengthened glass with anti-reflective coating
Rear Cover	2mm heat strengthened glass
Junction Box	3 diodes, IP68 according to IEC 62790
Connector Cables	cable length: 2 x 1200mm 4mm ² Stäubli MC4-EVO 2A connector +/- (1500V)
Frame	30mm black anodized aluminium frame

Electrical Specification¹

Testing Conditions	STC ²	P@NMOT ³
Rated Power P _{MPP} (Wp)	445	335
Maximum Power Current I _{MPP} (A)	13.47	10.89
Maximum Power Voltage V _{MPP} (V)	33.04	30.86
Short-circuit Current I _{sc} (A)	13.97	11.25
Open-circuit Voltage V _{oc} (V)	39.60	37.51

Module Efficiency STC (%) **22.3**



Operating Conditions

Maximum System Voltage (VDC)	1500
Reverse Current Feed I _R (A)	30
Power Performance Tolerance (%)	0 / +3
Max. Test-Load, Push/ Pull (Pa)	5400 / 2400
Max. Design-Load, Push/ Pull (Pa)	3600 / 1600

Bifacial Output

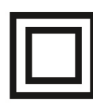
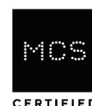
10 %	P _{Max} /Wp (STC)	490
20 %	P _{Max} /Wp (STC)	534
30 %	P _{Max} /Wp (STC)	579

Temperature Characteristics

Nominal Module Operating Temp. ³	42 ± 2°C
Temperature Coefficient P _{MPP} (%/°C)	- 0.29
Temperature Coefficient V _{MPP} (%/°C)	- 0.25
Temperature Coefficient I _{MPP} (%/°C)	+ 0.048

Certifications & Warranty

	IEC 61215, IEC 61730
	IEC 62716 Ammonia Corrosion
	IEC 61701 Salt Mist Corrosion
	PID (IEC TS 62804); LeTID (IEC TS 63342)
	IEC 60068 Dust & Sand
	Fire Rating: A or C (according to UL 790)
Product Warranty	30 years
Performance Warranty	30 years



handed out by:

¹ Measurements according to IEC 60904-3, measurement tolerance: I_{sc}: ±4%, V_{oc}: ± 3%, P_{MPP} +/- 3 %, Bifaciality: 80% ± 5%.

² Standard Test Conditions STC: Irradiation 1,000 W / m² with a spectrum of AM 1.5 at a cell temperature of 25 °C. Maximum reduction in efficiency at 200 W / m² : 2%.

³ NMOT-Data: Nominal Module Operating Temperature at irradiation 800 W / m² and an ambient temperature of 20 °C. Operating temperature range between - 40 °C and + 85 °C. All dimensions: +/- 3 mm. UOC / ISC +/- 10 %. Subject to technical changes. No liability is assumed for particulars. Please follow our installation instructions.

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