Heckert Solar

FUTURE STARTS IN GERMANY



Bifacial Back-Contact-Module

ZEUS 3.0 Performance

495WP



- OPTIMALE SHADING BEHAVIOUR
- BETTER TEMPERATURE BEHAVIOUR
- MODULE EFFICIENCY UP TO 24,25%
- HIGH MODULE PERFORMANCE TO 495WP

DE GERMAN WARRANTOR

DIRECT SERVICE

30 YEARS PRODUCT WARRANTY

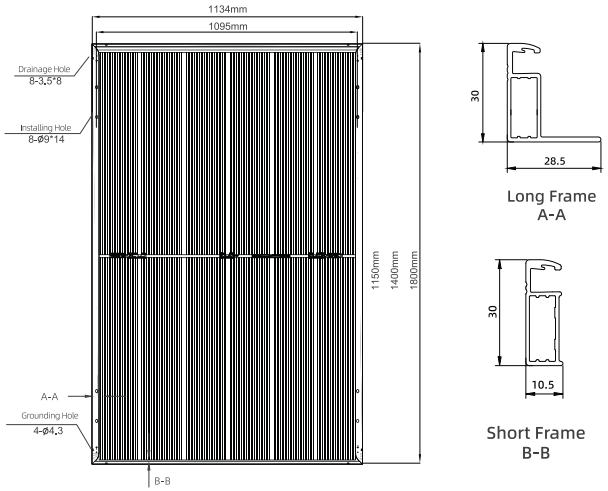
30 YEARS PERFORMANCE WARRANTY

ZEUS 3.0 108 495WP PERFORMANCE

PRELIMINARY DATA SHEET

Heckert Solar

DIMENSIONS IN MM



ELECTRICAL SPECIFICATIONS[1] (STC[2])

Rated Power P_{MPP} (Wp)	495
Max. Power Current I_{MPP} (A)	14,35
Max. Power Voltage V_{MPP} (V)	34,50
Short Circuit Voltage I_{SC} (A)	15,20
Open Circuit Voltage V_{OC} (V)	40,77
Module Efficiency (%)	24,25

ELECTRICAL SPECIFICATIONS[1] (NMOT[3])

Rated Power P_{MPP} (Wp)	378,50
Max. Power Current I_{MPP} (A)	11,58
Max. Power Voltage V_{MPP} (V)	32,69
Short Circuit Voltage I_{SC} (A)	12,26
Open Circuit Voltage V_{OC} (V)	39,25

BIFACIAL PERFORMANCE (10 % REAR IRRADIATION)

Max. Power P_{MAX} (W)	524,70
Max. Power Current I_{MPP} (A)	15,21
Max. Power Voltage V_{MPP} (V)	34,50
Short Circuit Voltage I_{SC} (A)	16,11
Open Circuit Voltage V_{OC} (V)	40,77

TEMPERATURE CHARACTERISTICS (STC)

Nominal Module Operating Temperature[3]	42 ± 2°C
Temperature Coefficient P_{MAX} (%/°C)	- 0,26
Temperature Coefficient V_{OC} (%/°C)	- 0,22
Temperature Coefficient I_{SC} (%/°C)	+ 0,05

OPERATING CONDITIONS

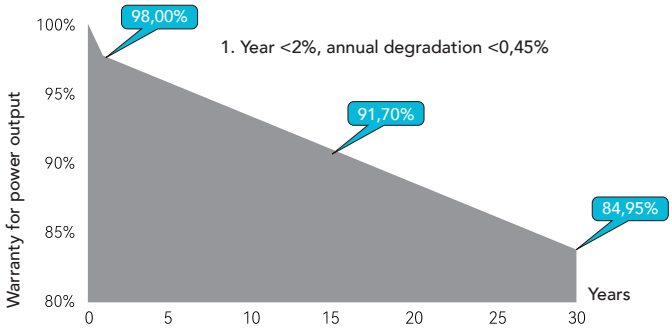
Operating temperature	-40 ~ +85°C
Max. System Voltage (VDC)	1500
Reverse current I_R (A)	30
Max. Power tolerance (Wp)	0 / +4,99
Maximum bifaciality (%)	60 ± 10

[1]Measurements according to IEC 60904-1 using the reference spectrum according to IEC 60904-3. Measurements Tolerances: Isc ±5 %, Voc ±5 %, Pmax ±4 %. Calculated bifacial power factor: 60 % at 10 % rear irradiation. [2]Standard-Testconditions (STC): Irradiation 1.000 W/m², Reference spectrum AM 1,5 and cell temperature 25 °C. [3]NMOT Nominal Module Operating Temperature at 800 W/m² irradiation, 20 °C Ambient temperature and 1 m/s Wind speed under specific installation conditions. Permissible operating temperature: −40 °C to +85 °C. Measurements tolerance: ±2 mm (Length/Width). Subject to technical changes. Design Load = Design Load, Test Load = Test Load. Follow the intallation instructions.

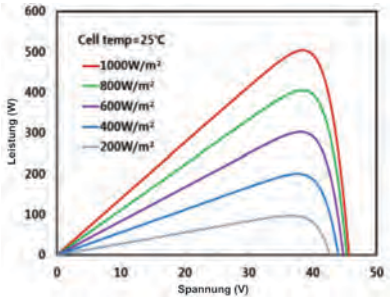
MODULE SPECIFICATIONS

Cell Technology	N-Type Back-Contact Technology
Cell Type	108 half cut cells (6x18)
Dimensions	1800 x 1134 x 30mm
Weight	24,6kg
Front Glass	2,0mm heat strengthened AR-glass
Rear Glass	2,0mm heat strengthened glass
Frame	30mm black anodized aluminium frame
Junction Box	3 Diodes, IP68, according to IEC 62790
Connection Cable	4mm² Stäubli MC4-EVO 2A connector +/- (1500V)
Cable Length	2 x ± 1200mm
Max. Test-Load, push/pull	+5400Pa / -2400Pa*
Max. Design-Load, push/pull	+3600Pa / -1600Pa*

LINEAR POWER OUTPUT WARRANTY



I-V CURVE



CERTIFICATES & WARRANTIES

IEC 61215, IEC 61730
IEC 62716: Ammonia Corrosion
IEC 61701: Salt Mist Corrosion
IEC TS 62804: PID; IEC TS 63342: LeTID
IEC 60068: Dust & Sand
Fire protection class: C (IEC)
Hail resistance class: HW3
Product Warranty: 30 Years
Performance Warranty: 30 Years
WEEE-Reg.-No.: DE 42676826
36 Modules/Palettes, 864 Modules/40'HC
Palette dimensions (L-B-H): 1820x1110x1246mm / weight: 901kg/Palette

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Status: 10/2026 I Illustrations similar. Heckert Solar GmbH reserves the right to make changes to the specifications