Heckert Solar

FUTURE STARTS IN GERMANY



Bifacial Back-Contact-Module

ZEUS 3.0+ Performance

485 - 490WP



- OPTIMAL SHADING BEHAVIOUR
- BETTER TEMPERATURE BEHAVIOUR
- MODULE EFFICIENCY UP TO 24.5%
- HIGH MODULE POWER UP TO 490WP
- HIGH AREA PERFORMANCE 245.23wp / m²

DE GERMAN WARRANTOR

DIRECT SERVICE

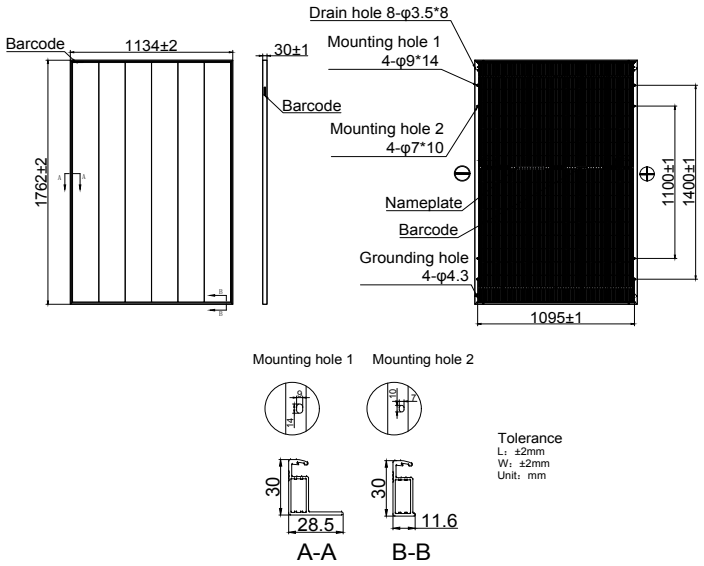
30 YEARS PRODUCT WARRANTY

30 YEARS PERFORMANCE WARRANTY

ZEUS 3.0+ 108 485-490WP PERFORMANCE

Heckert Solar

DIMENSIONS IN MM



ELECTRICAL SPECIFICATIONS[1] (STC[2])

Rated Power P_{MPP} (Wp)	485	490
Max. Power Current I_{MPP} (A)	14,02	14,13
Max. Power Voltage V_{MPP} (V)	34,60	34,70
Short-circuit Current I_{SC} (A)	14,84	14,88
Open-circuit Voltage V_{OC} (V)	41,00	41,10
Module Efficiency (%)	24,3	24,5

ELECTRICAL SPECIFICATIONS[1] (NOCT)

Rated Power P_{MPP} (Wp)	367	371
Max. Power Current I_{MPP} (A)	11,21	11,39
Max. Power Voltage V_{MPP} (V)]	32,83	32,92
Short-circuit Current I_{SC} (A)	11,99	12,02
Open-circuit Voltage V_{OC} (V)	38,90	38,99

TEMPERATURE CHARACTERISTICS

Nominal Module Operating Temperature[3]	45 ± 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

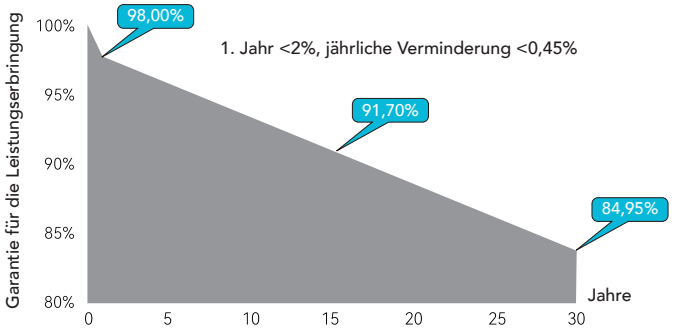
Operating Temperature Range	-40 ~ +70°C
Max.System Voltage (VDC)	1500
Reverse Current Feed I_R (A)	30
Power Performance Tolerance (Wp)	0 / +4,99
Max. Bifaciality (%)	43,6 ± 5

[1]Measurements according to IEC 60904-3,measurements tolerance: ISC ±5%, VOC ±5%, PMPP +/-4%, Bifaciality: ± 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 200W/m²: 2%. [3]NMOT-Wert: Nominal Module Operating Temperature at irradiation of 800W/m² and an ambient temperature of 20 °C. Operating temperature range between -40°C bis +85°C. Dimensions +/-3mm. Technical specifications are subject to change without notice. All information is provided without guarantee. Design load = rated load, test load = test load. Please refer to our installation instructions.

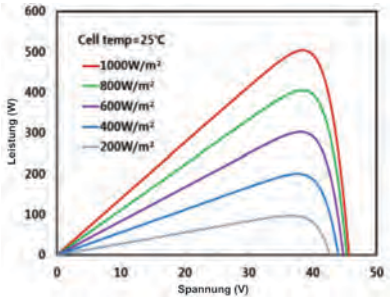
MODULE SPECIFICATIONS

Cell Technology	N-type ABC Back Contact
Cells	108 half cut cells (6x18)
Dimensions	1762 x 1134 x 30mm
Weight	24,2 kg
Front Glass	2mm partially heat strengthened AR glass
Rear Glass	2mm partially heat strengthened glass
Frame	30mm black anodized aluminium frame
Junction Box	3 diodes, IP68, according to IEC 62790
Connecting Cable	4mm² Stäubli MC4-EVO 2A plug +/- (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 CURVES



CERTIFICATES & WARRANTIES

IEC 61215, IEC 61730
IEC 62716: Ammonia Corrosion
IEC 60068 Sand & Dust*
IEC 61701 Salt Mist Corrosion
2PfG2387: PID
2PfG2689: LeTID
Fire Protection Class: IEC Class C
Hail Resistance Class: HW3
Product Warranty: 30 Years
Performance Warranty: 30 Years
WEEE-Reg.-No.: DE 42676826
37 Modules/Palettes, 962 Modules/40'HC

TÜVRheinland® Genau. Richtig.

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Status: 03/2026 I Illustration similar. Heckert Solar GmbH reserves the right to make changes to the specifications.