



PERFECT FOR AGRI-PV SOLUTIONS



Wood Mackenzie
Grade A

TIER 1
BloombergNEF

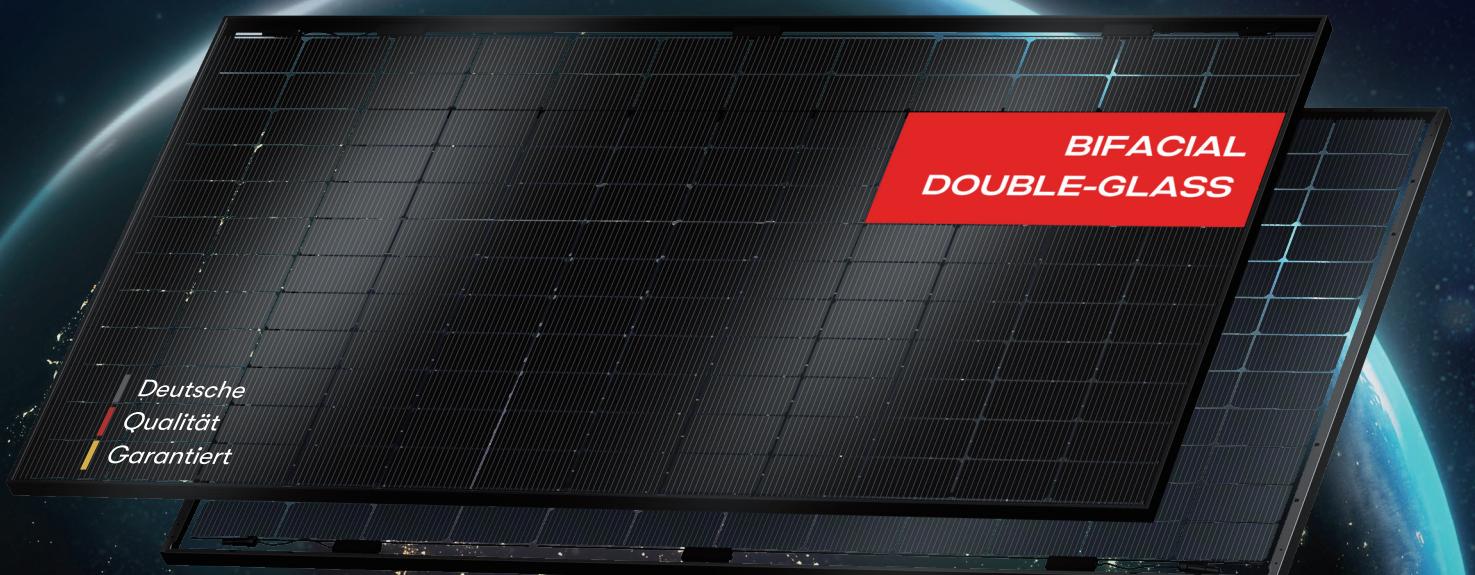
SMM Tier 1
GLOBAL TIER 1 AWARDS

560W-580W

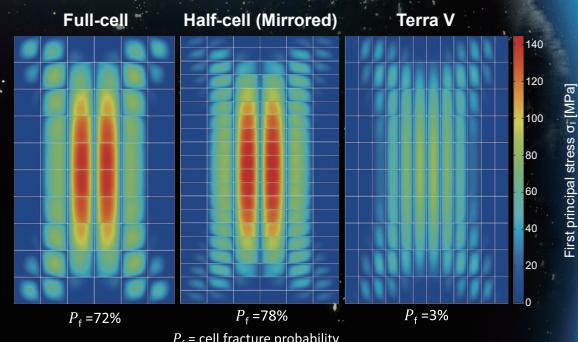
Terra V
CMD-L144BD

21.36% MAXIMUM EFFICIENCY

144 HALF CELLS



- ◆ Up to 75% less cell breakage probability under mechanical loads
- ◆ Highly durable against wind and snow
- ◆ Higher energy yield due to the elimination of self-shading from cables, junction boxes or frames
- ◆ Ideal for AgriPV & sound barriers, as well as other vertical installations

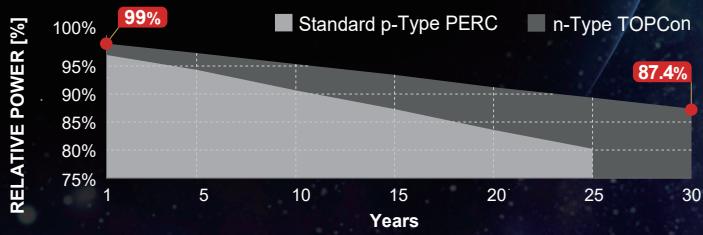


30 YEARS
Performance Warranty

up to **30** YEARS*
Product Warranty

*The regular product warranty is 15 years, please refer to the latest version of AESOLAR Limited Warranty for the duration of the product warranty under special conditions. for extensions, please contact AESOLAR staff.

OUR PERFORMANCE WARRANTY



 **AESOLAR**

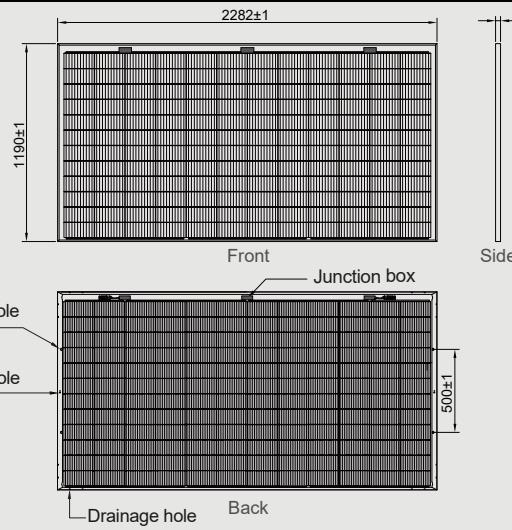
Since 2003

- NO SELF-SHADING FROM FRAME
- NO SELF-SHADING FROM CABLES / JUNCTION BOXES
- LID RESISTANT
- PID RESISTANT
- EXTREME RESISTANT TO WIND
- EXTREME RESISTANT TO SNOW
- HIGHLY STABLE AND TOUGH

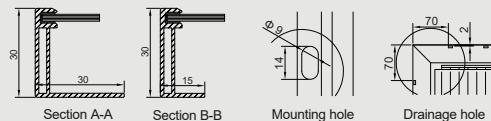
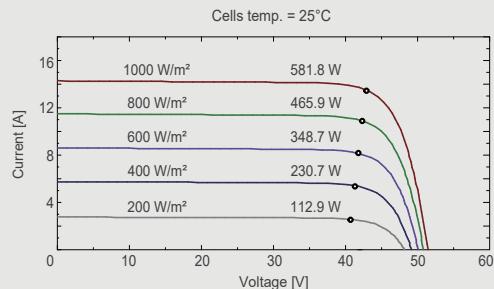
AE CMD-L144BD 560W-580W

PERFECT FOR AGRI-PV SOLUTIONS

BIFACIAL • DOUBLE-GLASS



Units: mm



Electrical specifications (STC*):

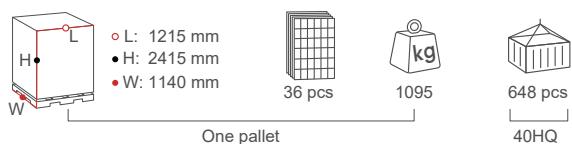
Nominal max. power	P _{max} (Wp)	560	565	570	575	580
Maximum operating voltage	V _{MPP} (V)	42.40	42.56	42.72	42.88	43.04
Maximum operating current	I _{MPP} (A)	13.21	13.28	13.34	13.41	13.49
Open-circuit voltage	V _{oc} (V)	51.20	51.30	51.50	51.70	51.90
Short-circuit current	I _{sc} (A)	14.14	14.20	14.26	14.33	14.40
Module efficiency	η (%)	20.62	20.81	20.99	21.17	21.36
Power tolerance	(W)	0~+5				
Maximum system voltage	(V)	1500				
Maximum series fuse rating	(A)	25				

*STC: Standard test conditions (Irradiance 1000 W/m², Cell temperature 25°C and air mass of AM1.5), measurement tolerance Pmax: ±3%

Mechanical and design specification

Cell type	n-Type TOPCon technology, half-cut cells
No. of cells	144
Bifaciality	80 ± 5%
Front cover	2.0 mm glass, high transmission, AR coated, tempered
Encapsulation	POE
Back cover	2.0 mm, high transmission solar glass, tempered
Junction box	IP68 rated, 3 bypass diodes
Frame	30 mm anodized aluminium alloy
Cable (Including Connector)	1 x 4 mm ² , 350 mm length or customized
Connectors	MC 4 / MC 4 compatible
Dimension	1190 mm x 2282 mm x 30 mm
Weight	29.5 kg
Hail resistance	Max. Ø 25 mm at 23 m/s
Wind load	2400 Pa or 244 kg/m ²
Snow load	5400 Pa or 550 kg/m ²

Packaging information



Bifacial electrical specifications

Max. power front-side P _{max front} (Wp)	560	565	570	575	580
Backside power gain	5%	10%	5%	10%	5%
Total equivalent power P _{max equ} (Wp)	588	616	593	622	598
Module efficiency η (%)	22.27	23.33	22.47	23.54	22.66

*Bifacial Gain: The additional gain from the back side compared to the power of the front side at the standard test condition. It depends on the mounting (structure, height, tilt angle, etc.) and albedo of the ground.

Temperature ratings

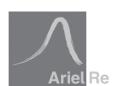
Operating temperature	-40 to +85°C
Temp. coefficient of P _{max}	-0.29 %/°C
Temp. coefficient of V _{oc}	-0.25 %/°C
Temp. coefficient of I _{sc}	0.046 %/°C
Nom. operating cell temp. NOCT	42 ± 2°C

IEC 61215 IEC 61730
Regular Production Surveillance
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IEC 62716 (Ammonia corrosion)
IEC 61701 (Salt mist corrosion)
IEC 60068 (Sand and dust)
IEC 62804 (PID resistance)

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The specifications and characteristics contained in this datasheet may deviate slightly from our actual products due to the product developments and uncertainty of measurement devices. The specifications included in the datasheet are subject to change without prior notice.



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