



Deutsche
Qualität
Garantiert



METEOR
N-TYPE TOPCON TECHNOLOGY

CMD-144BDS

565W-585W

More power, less degradation

22.67%

MAXIMUM EFFICIENCY

144

HALF CELLS

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.



LID
RESISTANT



PID
RESISTANT



SALT CORROSION
RESISTANT



SAND
RESISTANT



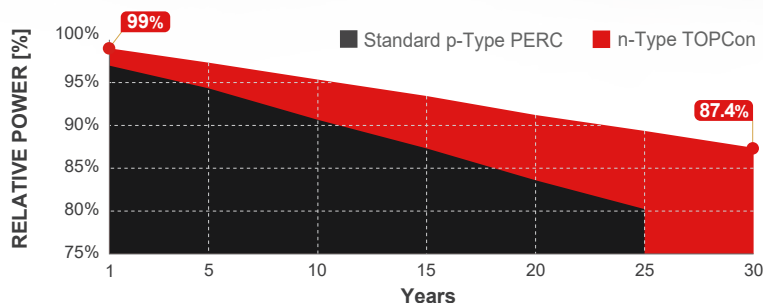
AMMONIA
RESISTANT



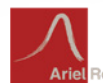
HIGHLY STABLE
AND TOUGH



OUR PERFORMANCE WARRANTY



SYSTEM AND PRODUCT CERTIFICATIONS



IEC 61215 IEC 61730
Regular Production Surveillance

www.tuv.com
ID 1111257249



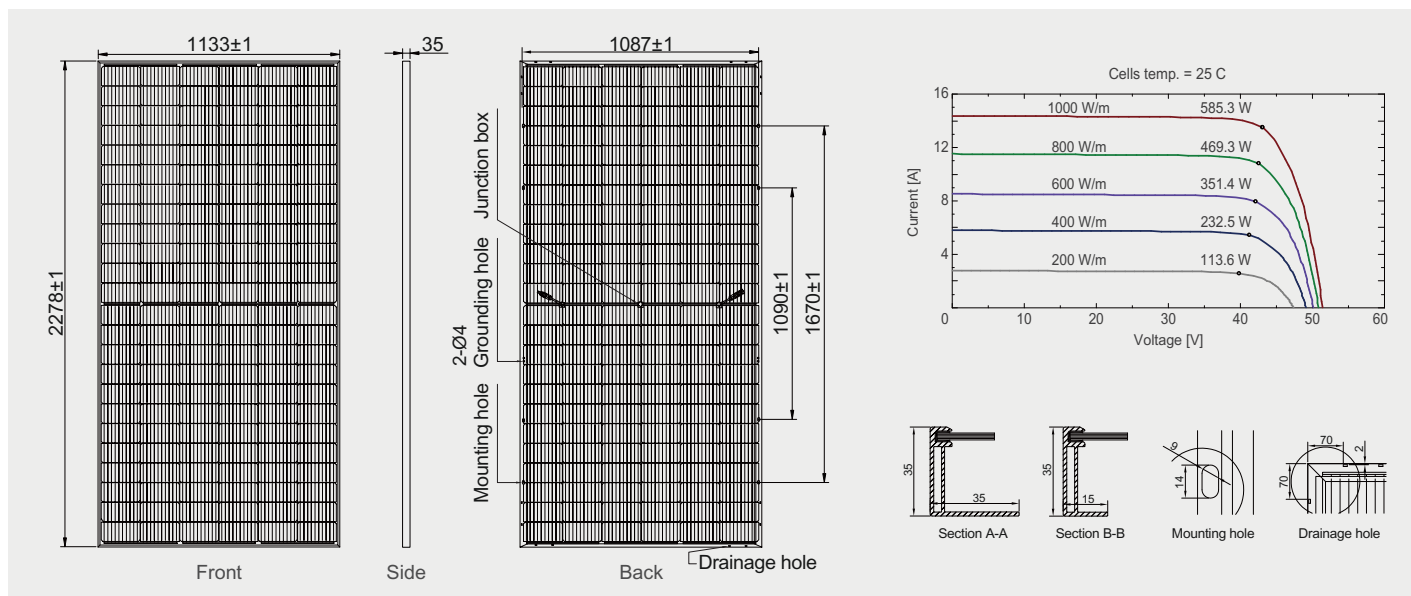
AESOLAR

www.ae-solar.com

AE CMD-144BDS 565W-585W

N-TYPE TOPCON TECHNOLOGY PV MODULE

BIFACIAL • DOUBLE-GLASS



Electrical specifications (STC*):

Nominal max. Power	P_{max} (Wp)	565	570	575	580	585
Maximum operating voltage	V_{MPP} (V)	42.56	42.72	42.88	43.04	43.14
Maximum operating current	I_{MPP} (A)	13.28	13.34	13.41	13.49	13.56
Open-circuit voltage	V_{oc} (V)	50.49	50.62	50.73	50.86	51.84
Short-circuit current	I_{sc} (A)	14.20	14.26	14.33	14.40	14.47
Module efficiency	η (%)	21.89	22.08	22.28	22.47	22.67
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 P_{max}: ±3%

Electrical specifications (NMOT*):

Nominal max. Power	P_{max} (Wp)	430.1	434.0	437.4	440.0	445.0
Maximum operating voltage	V_{MPP} (V)	39.50	39.70	39.80	39.90	40.13
Maximum operating current	I_{MPP} (A)	10.89	10.94	10.99	11.04	11.09
Open-circuit voltage	V_{oc} (V)	47.70	47.80	48.00	48.20	48.40
Short-circuit current	I_{sc} (A)	11.45	11.50	11.55	11.60	11.65

*NMOT: Normal Module Operating Temperature (irradiance 800 W/m², ambient temperature 20°C, air mass of AM1.5 and wind speed of 1 m/s)

Mechanical and design specification

Cell type	n-Type TOPCon technology, half-cut cells
No. of cells	144
Front cover	2.0 mm glass, high transmission, AR coated, tempered
Encapsulation	POE
Back cover	2.0 mm white glazed glass, tempered
Junction box	IP68 rated, 3 bypass diodes
Frame	35 mm anodized aluminium alloy
Cable	1 x 4 mm, 350 mm length or customized
Connectors	MC 4 / MC 4 compatible
Dimension	2278 mm x 1133 mm x 35 mm
Weight	33 kg
Hail resistance	Max. Ø 25 mm at 23 m/s
Wind load	2400 Pa or 244 kg/m
Snow load	5400 Pa or 550 kg/m

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

Packaging information

Packaging configuration	31 pcs / pallet
Loading capacity	620 pcs / 40 HQ
Size / Pallet	2310 mm x 1140 mm x 1245 mm
Weight	1067 kg / pallet

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.