



Deutsche
Qualität
Garantiert



N-TYPE TOPCON TECHNOLOGY

CMD-120 465W-485W

More power, less degradation

22.51%
MAXIMUM EFFICIENCY

120
HALF CELLS

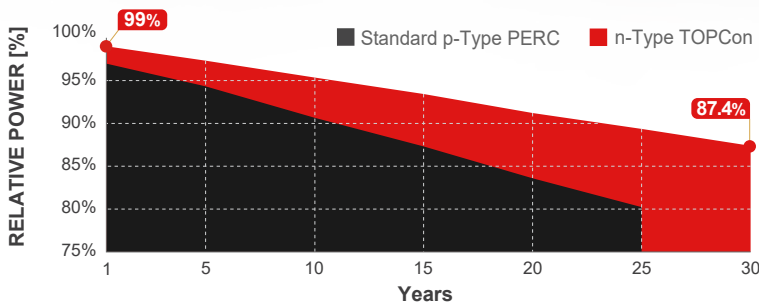
30 YEARS Performance Warranty up to **30 YEARS*** Product Warranty

*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 1111251295

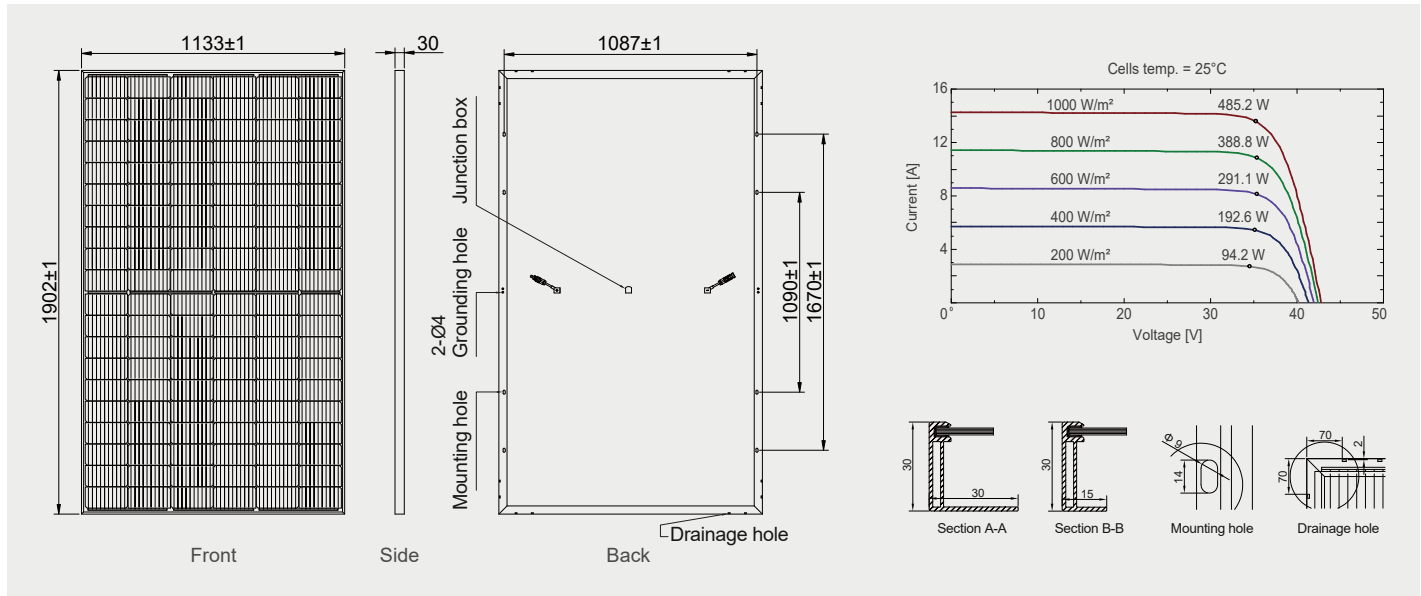


www.ae-solar.com

AE CMD-120 465W-485W

N-TYPE TOPCON TECHNOLOGY PV MODULE

MONO-FACIAL PV MODULE



Electrical specifications (STC*):

Nominal max. Power	P_{max} (Wp)	465	470	475	480	485
Maximum operating voltage	V_{MPP} (V)	34.89	35.05	35.22	35.38	35.55
Maximum operating current	I_{MPP} (A)	13.33	13.41	13.49	13.57	13.65
Open-circuit voltage	V_{oc} (V)	42.22	42.38	42.54	42.71	42.87
Short-circuit current	I_{sc} (A)	14.07	14.15	14.23	14.31	14.38
Module efficiency	η (%)	21.58	21.81	22.04	22.27	22.51
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%

Electrical specifications (NMOT*):

Nominal max. Power	P_{max} (Wp)	350	353	357	361	365
Maximum operating voltage	V_{MPP} (V)	32.77	32.94	33.10	33.27	33.44
Maximum operating current	I_{MPP} (A)	10.67	10.73	10.79	10.85	10.92
Open-circuit voltage	V_{oc} (V)	40.10	40.25	40.41	40.57	40.73
Short-circuit current	I_{sc} (A)	11.36	11.42	11.49	11.55	11.62

*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	120
Front cover	3.2 mm glass, high transmission, AR coated, tempered
Encapsulation	EVA
Back cover	White backsheet
Junction box	IP68 rated, 3 bypass diodes
Frame	30 mm anodized aluminium alloy
Cable	1 x 4 mm ² , 350 mm length or customized
Connectors	MC 4 / MC 4 compatible
Dimension	1902 mm x 1133 mm x 30 mm
Weight	22.5 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

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	36 pcs / pallet
Loading capacity	864 pcs / 40 HQ
Size / Pallet	1945 mm x 1140 mm x 1245 mm
Weight	847 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.