METEOR

N-TYPE TOPCON TECHNOLOGY

Wood Mackenzie Grade A | TIER 1 BloombergNEF | SMM TIER 1

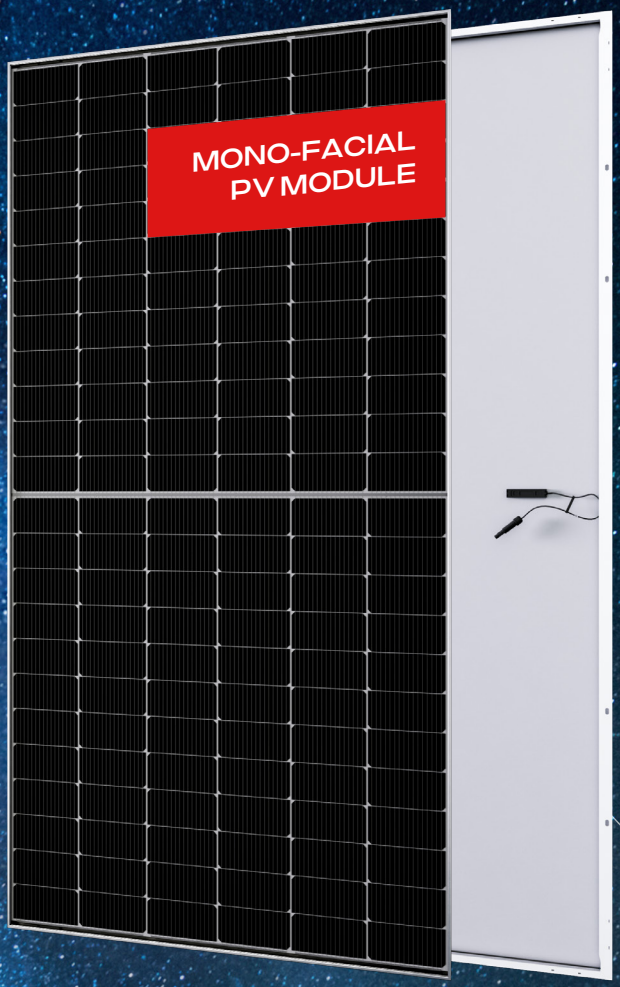
Deutsche Qualität Garantiert

575W-595W

CMD-144

23.05%
MAXIMUM EFFICIENCY

144
HALF CELLS



Ver..26.10.1

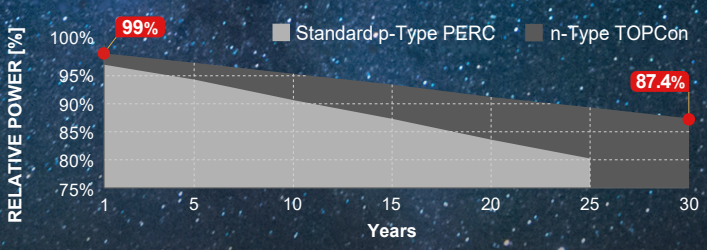
- N-type cell technology
- High efficiency and power output
- Cost-effective scalability and market dominance
- Low degradation and high durability
- No LID or LeTID

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

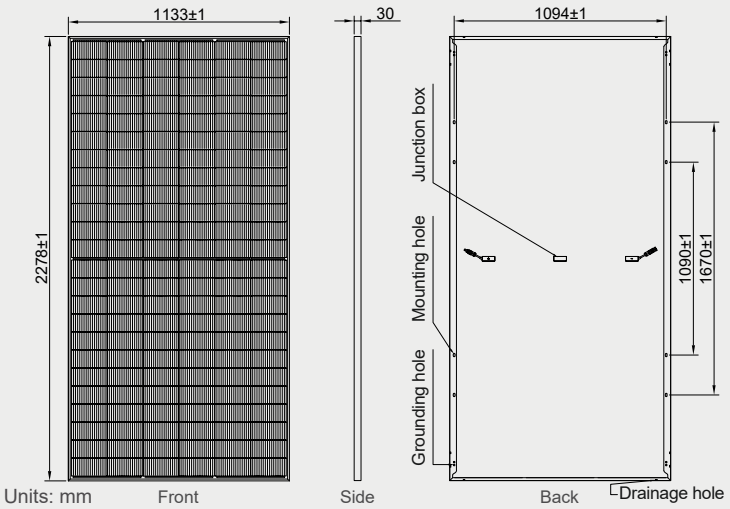
Since 2003

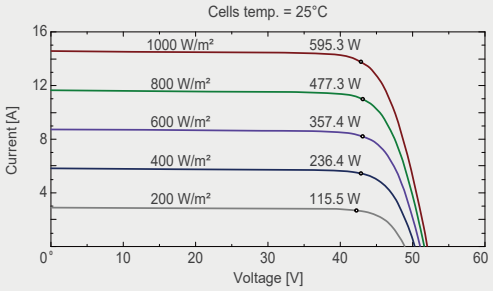
LID RESISTANT | PID RESISTANT | SALT CORROSION RESISTANT | SAND RESISTANT | AMMONIA RESISTANT | HIGHLY STABLE AND TOUGH

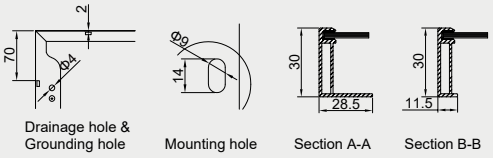
AE CMD-144 575W-595W

N-TYPE TOPCON TECHNOLOGY PV MODULE

MONO-FACIAL PV MODULE







Electrical specifications (STC*):

Nominal max. power	P_{max} (Wp)	575	580	585	590	595
Maximum operating voltage	V_{MPP} (V)	42.88	43.00	43.14	43.29	43.46
Maximum operating current	I_{MPP} (A)	13.41	13.49	13.56	13.63	13.69
Open-circuit voltage	V_{oc} (V)	52.06	52.12	52.18	52.24	52.30
Short-circuit current	I_{sc} (A)	14.33	14.40	14.47	14.54	14.61
Module efficiency	η (%)	22.28	22.47	22.67	22.86	23.05
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*):

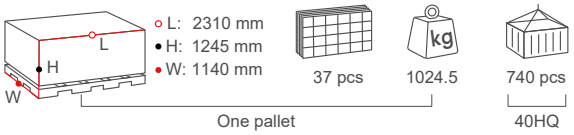
Nominal max. power	P_{max} (Wp)	440	445	450	455	460
Maximum operating voltage	V_{MPP} (V)	40.51	40.73	40.97	41.21	41.48
Maximum operating current	I_{MPP} (A)	10.86	10.93	10.98	11.04	11.09
Open-circuit voltage	V_{oc} (V)	47.38	47.69	47.99	48.29	48.59
Short-circuit current	I_{sc} (A)	11.61	11.66	11.72	11.78	11.83

*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	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 (Including Connector)	1 x 4 mm², 300 mm length or customized
Connectors	MC 4 / MC 4 compatible
Dimension	2278 mm x 1133 mm x 30 mm
Weight	26.5 kg
Hail resistance	Max. Ø 25 mm at 23 m/s
Wind load	2400 Pa or 244 kg/m²
Snow load	5400 Pa or 550 kg/m²

Packaging information



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

SYSTEM AND PRODUCT CERTIFICATIONS

IEC 61215 IEC 61730
Regular Production Surveillance
www.tuv.com

IEC 62716 (Ammonia corrosion)
IEC 61701 (Salt mist corrosion)
IEC 60068 (Sand and dust)
IEC 62804 (PID resistance)

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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