



TERRA

PERFECT FOR AGRI-PV SOLUTIONS

Wood
Mackenzie
GradeA

TIER1
BloombergNEF

SMM TIER1
GLOBAL TOP 1 MANUFACTURER

Deutsche
Qualität
Garantiert

375W-395W

Terra E | CMD-96BD

40%
HIGH TRANSPARENCY

96
HALF CELLS

- ◆ Protects crops from heavy rain, hail, and wind
- ◆ Protects crops against frost and drought under extreme sunshine
- ◆ Suitable for installation on greenhouse roofs
- ◆ 40% light transmission for homogeneous light distribution under the module
- ◆ Highly reliable and durable under mechanical loads



**BIFACIAL
DOUBLE-GLASS**

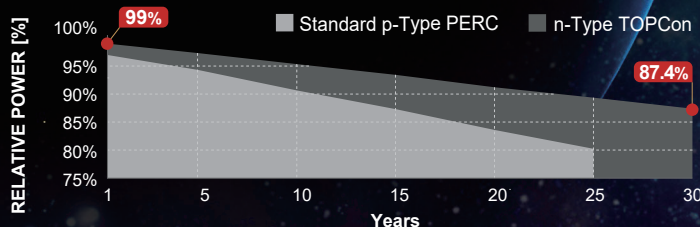
Ver. 26.8.1

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

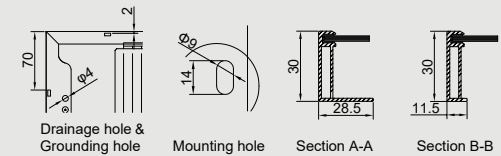
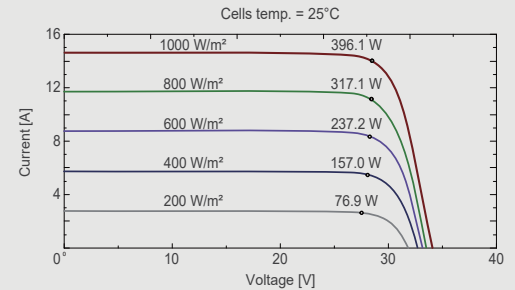
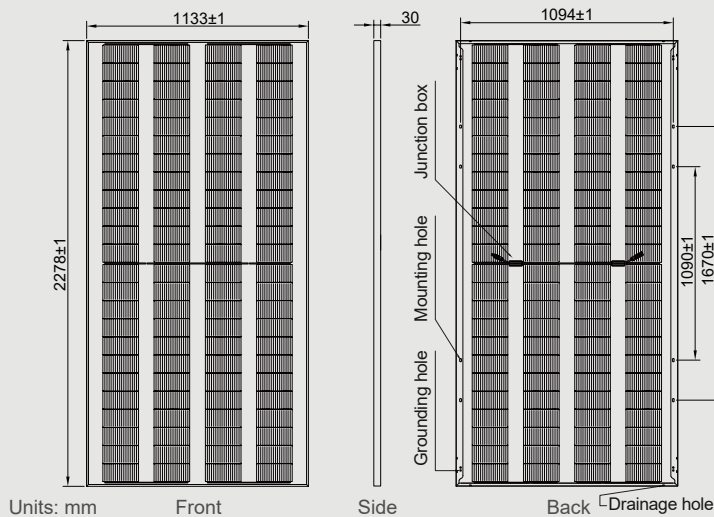


HIGHLY STABLE
AND TOUGH

AE CMD-96BD 375W-395W

PERFECT FOR AGRI-PV SOLUTIONS

BIFACIAL • DOUBLE-GLASS



Electrical specifications (STC*):

Nominal max. power	P_{max} (Wp)	375	380	385	390	395
Maximum operating voltage	V_{MPP} (V)	28.24	28.49	28.54	28.76	28.85
Maximum operating current	I_{MPP} (A)	13.28	13.34	13.49	13.56	13.69
Open-circuit voltage	V_{oc} (V)	33.01	33.31	33.42	33.69	33.80
Short-circuit current	I_{sc} (A)	14.20	14.26	14.40	14.47	14.61
Module efficiency	η (%)	14.53	14.72	14.92	15.11	15.30
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)	285	290	295	300	305
Maximum operating voltage	V_{MPP} (V)	26.49	26.84	27.00	27.31	27.50
Maximum operating current	I_{MPP} (A)	10.76	10.81	10.93	10.98	11.09
Open-circuit voltage	V_{oc} (V)	30.97	31.38	31.61	31.99	32.22
Short-circuit current	I_{sc} (A)	11.50	11.55	11.66	11.72	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)

Bifacial electrical specifications

Max. power front-side	P_{max} front (Wp)	375	380	385	390	395
Backside Power Gain		5% 10%	5% 10%	5% 10%	5% 10%	5% 10%
Total equivalent power	$P_{max equ}$ (Wp)	394 413	399 418	404 424	410 429	415 435
Module efficiency	η (%)	15.26 15.98	15.46 16.20	15.66 16.41	15.87 16.62	16.07 16.83

*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.

Mechanical and design specification

Cell type	n-Type TOPCon technology, half-cut cells
No. of cells	96
Transparency	40%
Bifaciality	80 ± 5%
Front cover	2.0 mm glass, high transmission, AR coated, tempered
Encapsulation	POE
Back cover	2.0 mm transparent glass, tempered
Junction box	IP68 rated, 2 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	31 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
Fire rating	Class A (according to UL 790)

Packaging information

One pallet	36 pcs	1160	720 pcs
			40HQ

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.