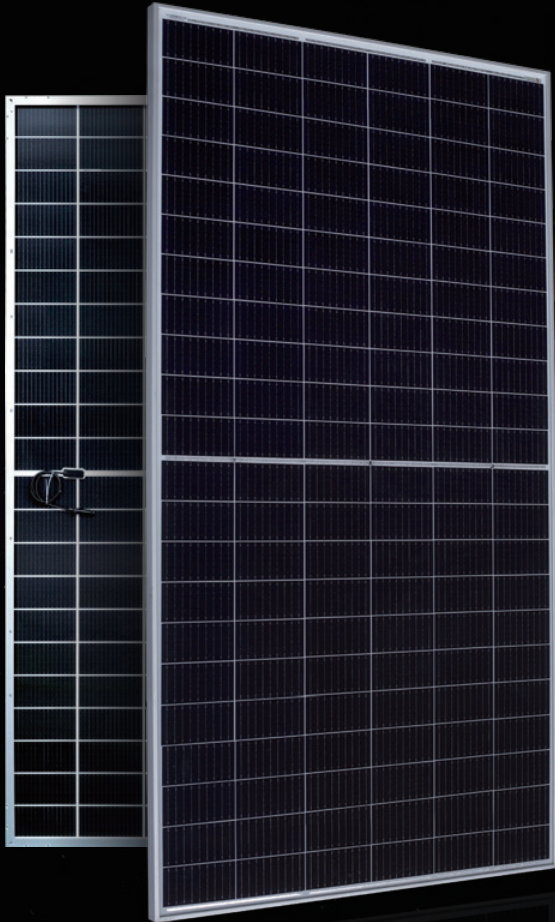




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**30**  
years

Performance  
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years

Product  
Warranty

### 680W-700W

### AE CME-132BDS Series

N-TYPE TOPCON TECHNOLOGY PV MODULES  
HALF-CUT CELLS • BIFACIAL • DOUBLE-GLASS

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Ver. 24.1.1



**132**

HALF  
CELLS



**210**  
mm

CELL  
SIZE



LID  
RESISTANT



PID  
RESISTANT



SALT CORROSION  
RESISTANT



SAND  
RESISTANT



AMMONIA  
RESISTANT

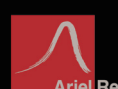


HIGHLY STABLE  
AND TOUGH



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



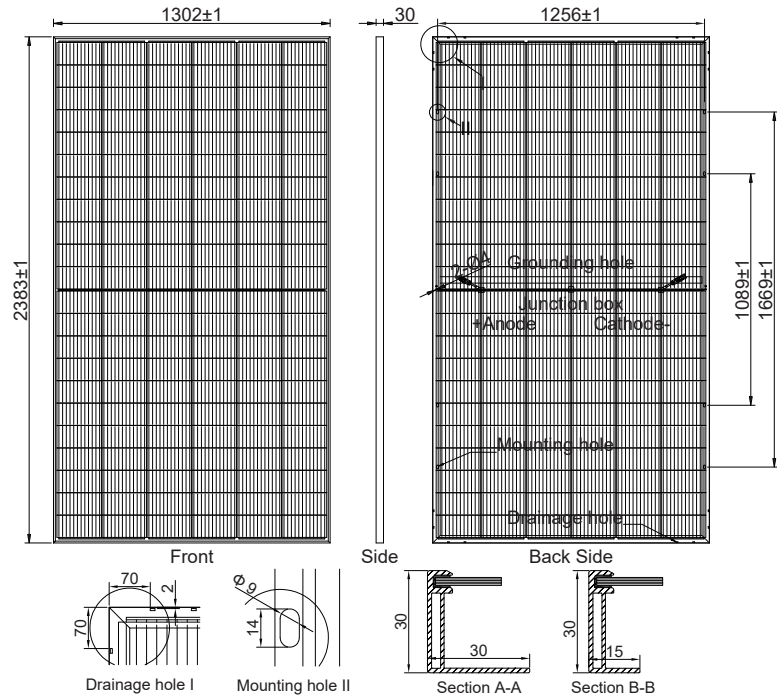
# AE CME-132BDS Series 680W-700W



N-TYPE TOPCON TECHNOLOGY PV MODULES  
HALF-CUT CELLS • BIFACIAL • DOUBLE-GLASS

## Mechanical and design specification

Cell type	n-Type TOPCon Technology, Half-cut cells, 210 mm
No. of cells	132
Bifaciality	80 ± 5%
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	30 mm anodized Aluminium alloy
Cable	1 x 4 mm <sup>2</sup> , 350 mm length or customized
Connectors	MC 4 / MC 4 compatible
Dimension	2383 mm x 1302 mm x 30 mm
Weight	37 kg
Hail resistance	Max. Ø 25 mm at 23 m/s
Wind load	2400 Pa or 244 kg/m <sup>2</sup>
Snow load	5400 Pa or 550 kg/m <sup>2</sup>

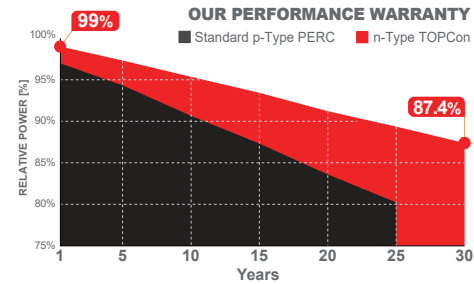
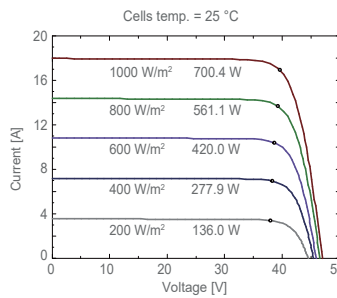


## Packaging information

Packaging configuration	36 pcs / pallet
Loading capacity	612 pcs / 40 HQ
Size / Pallet	1350 mm x 1140 mm x 2500 mm (Upright)
Weight	1364 kg / pallet

## Temperature ratings

Operating temperature	(°C)	-40 to +85
Temp.coefficient of P <sub>max</sub>	(%/°C)	-0.30
Temp.coefficient of V <sub>oc</sub>	(%/°C)	-0.24
Temp.coefficient of I <sub>sc</sub>	(%/°C)	0.040
Nom. operating temp. NOCT	(°C)	43 ± 2



## Electrical specifications (STC\*): AE680CME-132BDS AE685CME-132BDS AE690CME-132BDS AE695CME-132BDS AE700CME-132BDS

	P <sub>max</sub> (Wp)	680	685	690	695	700
Nominal Max. Power	P <sub>max</sub> (Wp)	680	685	690	695	700
Maximum operating voltage	V <sub>MPP</sub> (V)	39.65	39.85	40.10	40.30	40.52
Maximum operating current	I <sub>MPP</sub> (A)	17.16	17.19	17.23	17.25	17.28
Open-circuit voltage	V <sub>oc</sub> (V)	47.40	47.70	47.90	48.10	48.30
Short-circuit current	I <sub>sc</sub> (A)	18.18	18.21	18.25	18.28	18.31
Module efficiency	η (%)	21.92	22.08	22.24	22.41	22.57
Power tolerance	(W)			0~+5		
Maximum system Voltage	(V)			1500		
Maximum series fuse rating	(A)			35		

\*STC: Standard test conditions (Irradiance 1000 W/m<sup>2</sup>, Cell temperature 25°C and air mass of AM1.5), measurement tolerance P<sub>max</sub>: ±3%

## Electrical specifications (NMOT\*): AE680CME-132BDS AE685CME-132BDS AE695CME-132BDS AE695CME-132BDS AE700CME-132BDS

	P <sub>max</sub> (Wp)	517	521	525	529	533
Nominal Max. Power	P <sub>max</sub> (Wp)	517	521	525	529	533
Maximum operating voltage	V <sub>MPP</sub> (V)	37.20	37.30	37.60	37.85	38.10
Maximum operating current	I <sub>MPP</sub> (A)	13.91	13.94	13.97	13.98	14.00
Open-circuit voltage	V <sub>oc</sub> (V)	44.90	45.20	45.40	45.60	45.80
Short-circuit current	I <sub>sc</sub> (A)	14.65	14.67	14.71	14.75	14.79

\*NMOT: Normal Module Operating Temperature (Irradiance 800 W/m<sup>2</sup>, Ambient temperature 20°C, air mass of AM1.5 and wind speed of 1 m/s)

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.