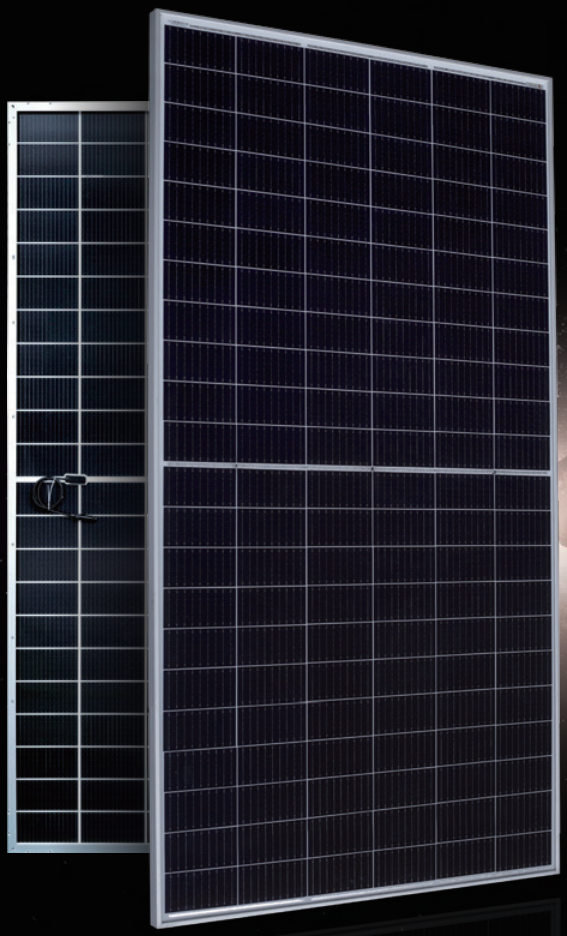
Deutsche
Qualität
Garantiert

TIER 1 BloombergNEF

AESOLAR

since 2003



METEOR

More power, less degradation

30 years Performance Warranty

15 years Product Warranty

680W-700W

AE CME-132BDS Series

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

www.ae-solar.com

Ver. 24.1.1

132	210 mm		PID			NH_3 S	
HALF CELLS	CELL SIZE	LID RESISTANT	PID RESISTANT	SALT CORROSION RESISTANT	SAND RESISTANT	AMMONIA RESISTANT	HIGHLY STABLE AND TOUGH

ISO 9001:2015 QUALITY MANAGEMENT SYSTEM
ISO14001
ISO 45001:2018 HEALTH AND SAFETY
TÜVRheinland CERTIFIED

IEC 61215 IEC 61730
Regular Production Surveillance
www.tuv.com
ID 1111257249

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

Ariel Re

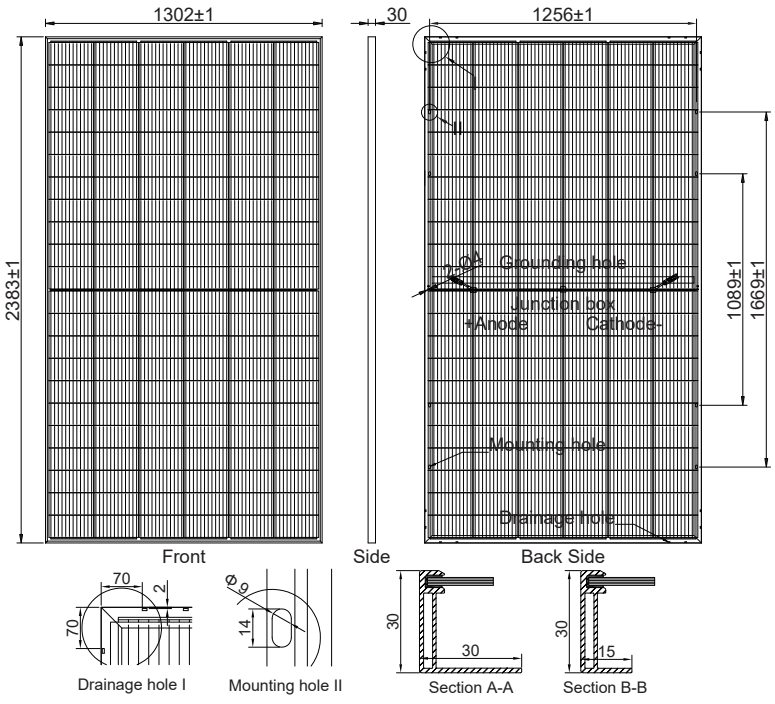
CE

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 mm², 350 mm lenght 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/m²
Snow load	5400 Pa or 550 kg/m²

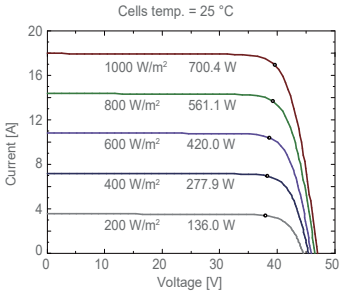


Packaging information

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_{max}	(%/°C)	-0.30
Temp.coefficient of V_{oc}	(%/°C)	-0.24
Temp.coefficient of I_{sc}	(%/°C)	0.040
Nom. operating temp. NOCT	(°C)	43 ± 2



Electrical specifications (STC*)

		AE680CME-132BDS	AE685CME-132BDS	AE690CME-132BDS	AE695CME-132BDS	AE700CME-132BDS
Nominal Max. Power	P_{max} (Wp)	680	685	690	695	700
Maximum operating voltage	V_{MPP} (V)	39.65	39.85	40.10	40.30	40.52
Maximum operating current	I_{MPP} (A)	17.16	17.19	17.23	17.25	17.28
Open-circuit voltage	V_{oc} (V)	47.40	47.70	47.90	48.10	48.30
Short-circuit current	I_{sc} (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/m², Cell temperature 25°C and air mass of AM1.5), measurement tolerance P_{max}: ±3%

Electrical specifications (NMOT*)

		AE680CME-132BDS	AE685CME-132BDS	AE695CME-132BDS	AE695CME-132BDS	AE700CME-132BDS
Nominal Max. Power	P_{max} (Wp)	517	521	525	529	533
Maximum operating voltage	V_{MPP} (V)	37.20	37.30	37.60	37.85	38.10
Maximum operating current	I_{MPP} (A)	13.91	13.94	13.97	13.98	14.00
Open-circuit voltage	V_{oc} (V)	44.90	45.20	45.40	45.60	45.80
Short-circuit current	I_{sc} (A)	14.65	14.67	14.71	14.75	14.79

*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)

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