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COMET enrich your energy yield





680W-700WAE TME-132BDS Series

SILICON HETEROJUNCTION PV MODULES HALF-CUT CELLS • BIFACIAL • DOUBLE-GLASS

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Ver. 24.1.1



HALF CELLS



CELL SIZE



LID DESISTANIT



PID RESISTANT



SALT CORROSION RESISTANT



SAND RESISTANT



AMMONIA



HIGHLY STABLE













AE TME-132BDS Series 680W-700W

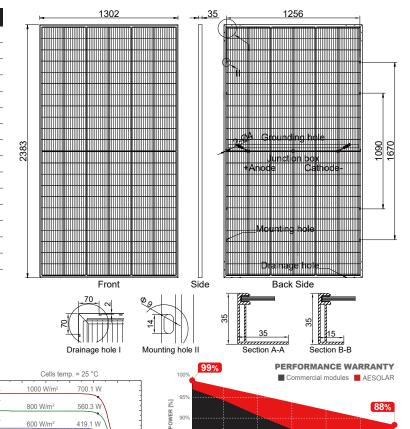




Mechanical	and design specification
Cell type	Silicon Heterojunction Technology, Half-cut cells, 210 mm
No. of cells	132
Bifaciality	80 ± 5%
Front cover	2.0 mm glass, high transmission, AR coated, tempered
Encapsulation	POE
Back cover	2.0 mm white glazed glass, tempered
Junction box	IP68 rated, 3 Bypass Diodes
Frame	35 mm anodized Aluminium alloy
Cable	1 x 4 mm², 350 mm length or customized
Connectors	MC 4 / MC 4 compatible
Dimension	2383 mm x 1302 mm x 35 mm
Weight	38.5 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				
Packaging configuration	31 pcs / pallet			
Loading capacity	558 pcs / 40 HQ			
Size / Pallet	1350 mm × 1100 mm × 2520 mm (upright)			
Weight	1332 kg / pallet			

Temperature ratings					
Operating temperature	(°C)	-40 to +85			
Temp.coefficient of P _{max}	(%/°C)	-0.26			
Temp.coefficient of Voc	(%/°C)	-0.24			
Temp.coefficient of I _{sc}	(%/°C)	0.040			
Nom. operating temp. NOCT	(°C)	44 ± 2			



RELATIVE 85%

277.2 W

Voltage [V]

400 W/m

Electrical specificat	ions (STC*):	AE680TME-132BDS	AE685TME-132BDS	AE690TME-132BDS	AE695TME-132BDS	AE700TME-132BDS
Nominal Max. Power	P _{max} (Wp)	680	685	690	695	700
Maximum operating voltage	V _{MPP} (V)	41.49	41.65	41.80	41.95	42.10
Maximum operating current	I _{MPP} (A)	16.39	16.45	16.51	16.57	16.63
Open-circuit voltage	V _{oc} (V)	49.50	49.66	49.82	49.98	50.13
Short-circuit current	I _{sc} (A)	17.19	17.25	17.31	17.37	17.43
Module efficiency	η (%)	21.92	22.08	22.24	22.40	22.56
Power tolerance	(W)			0~+5		
Maximum system Voltage	(V)			1500		
Maximum series fuse rating	(A)			35		

Current [A]

^{*}STC: Standard test conditions (Irradiance 1000 W/m², Cell temperature 25°C and air mass of AM1.5), measurement tolerance Pmax: ±3%

Electrical specificat	ions (NMOT*):	AE680TME-132BDS	AE685TME-132BDS	AE690TME-132BDS	AE695TME-132BDS	AE700TME-132BDS
Nominal Max. Power	P _{max} (Wp)	510	513	517	521	525
Maximum operating voltage	V _{MPP} (V)	38.90	39.04	39.18	39.32	39.46
Maximum operating current	I _{MPP} (A)	13.11	13.16	13.21	13.26	13.30
Open-circuit voltage	V _{oc} (V)	46.36	46.54	46.71	46.89	47.06
Short-circuit current	I _{sc} (A)	13.75	13.80	13.85	13.90	13.94

^{*}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)

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.

