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560W-580WAE CMD-144 Series

N-TYPE TOPCON TECHNOLOGY PV MODULES HALF-CUT CELLS • MONO-FACIAL

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Ver. 24.1.1



HALF



CELL



LID RESISTANT



PID RESISTANT



SALT CORROSION RESISTANT



SAND RESISTANT



AMMONIA RESISTANT



HIGHLY STABLE AND TOUGH













AE CMD-144 Series 560W-580W

N-TYPE TOPCON TECHNOLOGY PV MODULES HALF-CUT CELLS • MONO-FACIAL

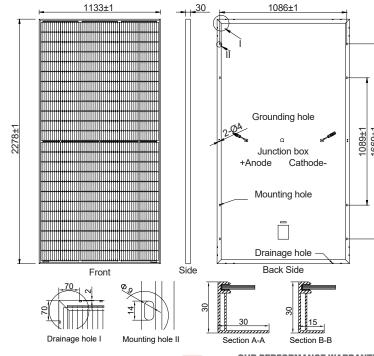


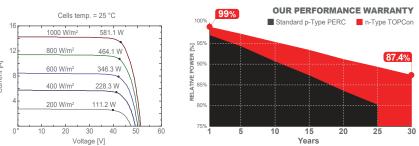
Mechanical and design specification				
Cell type	n-Type TOPCon Technology, Half-cut cells, 182 mm			
No. of cells	144			
Front cover	3.2 mm glass, high transmission, AR coated, tempered			
Encapsulation	EVA			
Back cover	White Backsheet			
Junction box	IP68 rated, 3 Bypass Diodes			
Frame	30 mm anodized Aluminium alloy			
Cable	1 x 4 mm ² , 350 mm lenght 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			

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Packaging information					
Packaging configuration	36 pcs / pallet				
Loading capacity	720 pcs / 40 HQ				
Size / Pallet	2310 mm x 1140 mm x 1245 mm				
Weight	998 kg / pallet				

Temperature ratings					
Operating temperature	(°C)	-40 to +85			
Temp.coefficient of P _{max}	(%/°C)	-0.30			
Temp.coefficient of Voc	(%/°C)	-0.25			
Temp.coefficient of I _{sc}	(%/°C)	0.046			
Nom. operating temp. NOCT	(°C)	42 ± 2			





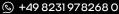
Electrical specifications (STC*):		AE560CMD-144	AE565CMD-144	AE570CMD-144	AE575CMD-144	AE580CMD-144
Nominal Max. Power	P _{max} (Wp)	560	565	570	575	580
Maximum operating voltage	V _{MPP} (V)	42.40	42.56	42.72	42.88	43.04
Maximum operating current	I _{MPP} (A)	13.21	13.28	13.34	13.41	13.49
Open-circuit voltage	V _{oc} (V)	50.23	50.39	50.55	50.68	50.86
Short-circuit current	I _{sc} (A)	14.14	14.20	14.26	14.33	14.40
Module efficiency	η (%)	21.70	21.89	22.08	22.28	22.47
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 specificat	ions (NMOT*):	AE560CMD-144	AE565CMD-144	AE570CMD-144	AE575CMD-144	AE580CMD-144
Nominal Max. Power	P _{max} (Wp)	426.0	430.1	434.0	437.4	440
Maximum operating voltage	V _{MPP} (V)	39.30	39.50	39.70	39.80	39.90
Maximum operating current	I _{MPP} (A)	10.84	10.89	10.94	10.99	11.04
Open-circuit voltage	V _{oc} (V)	47.50	47.70	47.80	48.00	48.20
Short-circuit current	I _{sc} (A)	11.40	11.45	11.50	11.55	11.60

*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



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