





since 2003



METEOR

More power, less degradation





465W-485W AE CMD-120 Series

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

www.ae-solar.com

Ver. 24.1.1







CELL SIZE





RESISTANT





SALT CORROSION RESISTANT



SAND



AIMONIA



HIGHLY STABLE













AE CMD-120 Series 465W-485W

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

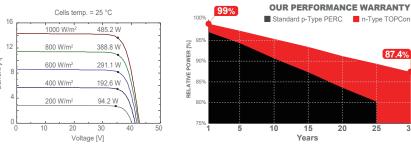


Mechanical and design specification					
Cell type	n-Type TOPCon Technology, Half-cut cells, 182 mm				
No. of cells	120				
Front cover	3.2 mm glass, high transmission, AR coated, tempered				
Encapsulation	EVA				
Back cover	White Backsheet				
Junction box	IP68 rated, 3 Bypass Diodes				
Frame	30 mm anodized Aluminium alloy				
Cable	1 x 4 mm², 350 mm lenght or customized				
Connectors	MC 4 / MC 4 compatible				
Dimension	1902 mm x 1133 mm x 30 mm				
Weight	22.5 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				

1133±1		30	± 10)87±1	+
1902±1			Mounting	tion box Cathode -	1090±1
Front		Side	Bad	ck Side	
Projects bold I	Mounting hold II	30	30	08	

Packaging information					
Packaging configuration	36 pcs / pallet				
Loading capacity	864 pcs / 40 HQ				
Size / Pallet	1945 mm x 1140 mm x 1245 mm				
Weight	847 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				



Mounting hole II

Drainage hole I

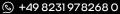
Electrical specifications (STC*):		AE465CMD-120	AE470CMD-120	AE475CMD-120	AE480CMD-120	AE485CMD-120
Nominal Max. Power	P _{max} (Wp)	465	470	475	480	485
Maximum operating voltage	V _{MPP} (V)	34.89	35.05	35.22	35.38	35.55
Maximum operating current	I _{MPP} (A)	13.33	13.41	13.49	13.57	13.65
Open-circuit voltage	V _{oc} (V)	42.22	42.38	42.54	42.71	42.87
Short-circuit current	I _{sc} (A)	14.07	14.15	14.23	14.31	14.38
Module efficiency	η (%)	21.58	21.81	22.04	22.27	22.51
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 specifications (NMOT*):		AE465CMD-120	AE470CMD-120	AE475CMD-120	AE480CMD-120	AE485CMD-120
Nominal Max. Power	P _{max} (Wp)	350	353	357	361	365
Maximum operating voltage	V _{MPP} (V)	32.77	32.94	33.10	33.27	33.44
Maximum operating current	I _{MPP} (A)	10.67	10.73	10.79	10.85	10.92
Open-circuit voltage	V _{oc} (V)	40.10	40.25	40.41	40.57	40.73
Short-circuit current	I _{sc} (A)	11.36	11.42	11.49	11.55	11.62

*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.



@ sales@ae-solar.com



Section B-B

87.4%

Section A-A