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METEOR

More power, less degradation





415W-435W AECMD-108BDE Series

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

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Ver. 24.1.1



HALF CELLS



CELL SIZE



LID RESISTANT



PID RESISTANT



SALT CORROSION RESISTANT



SAND RESISTANT



AMMONIA RESISTANT



HIGHLY STABLE AND TOUGH













AE CMD-108BDE Series 415W-435W





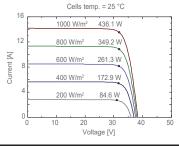
Mechanical and design specification				
n-Type TOPCon Technology, Half-cut cells, 182 mm				
108				
80 ± 5%				
2.0 mm glass, high transmission, AR coated, tempered				
POE				
2.0 mm black glazed glass, tempered				
IP68 rated, 3 Bypass Diodes				
30 mm anodized Aluminium alloy				
1 x 4 mm², 350 mm lenght or customized				
MC 4 / MC 4 compatible				
1721 mm x 1133 mm x 30 mm				
23.5 kg				
Max. Ø 25 mm at 23 m/s				
2400 Pa or 244 kg/m²				
5400 Pa or 550 kg/m²				
Class A (according to UL 790)				

	1133±1	-11-30	1086±1
1721±1			A code - Carriage 1389#1
	Front	Side	Back Side
Ç	70 0 4		00 00 115

Mounting hole II

Packaging information					
Packaging configuration	36 pcs / pallet				
Loading capacity	936 pcs / 40 HQ				
Size / Pallet	1755 mm x 1140 mm x 1245 mm				
Weight	880 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			



Drainage hole I



Section B-B

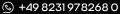
Electrical specificat	ions (STC*):	AE415CMD-108BDE	AE420CMD-108BDE	AE425CMD-108BDE	AE430CMD-108BDE	AE435CMD-108BDE
Nominal Max. Power	P _{max} (Wp)	415	420	425	430	435
Maximum operating voltage	$V_{MPP}(V)$	31.81	32.04	32.25	32.43	32.64
Maximum operating current	I _{MPP} (A)	13.05	13.11	13.18	13.26	13.33
Open-circuit voltage	V _{oc} (V)	37.67	37.86	38.08	38.26	38.46
Short-circuit current	I _{sc} (A)	13.95	14.03	14.10	14.17	14.23
Module efficiency	η (%)	21.28	21.54	21.80	22.05	22.31
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	tions (NMOT*):	AE415CMD-108BDE	AE420CMD-108BDE	AE425CMD-108BDE	AE430CMD-108BDE	AE435CMD-108BDE
Nominal Max. Power	P _{max} (Wp)	316.0	320.0	323.5	327.1	331.0
Maximum operating voltage	$V_{MPP}(V)$	29.50	29.70	29.90	30.10	30.30
Maximum operating current	I _{MPP} (A)	10.70	10.76	10.81	10.87	10.93
Open-circuit voltage	V _{oc} (V)	35.60	35.80	36.00	36.20	36.40
Short-circuit current	I _{sc} (A)	11.25	11.31	11.37	11.42	11.48

^{*}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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