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More power, less degradation





**420W-440W**AE CMD-108 Series

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

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Ver. 24.1.1



HALF CELLS



CELL



LID RESISTANT



PID RESISTANT



SALT CORROSION RESISTANT



SAND RESISTANT



AMMONIA RESISTANT



HIGHLY STABLE AND TOUGH













## **AE CMD-108 Series 420W-440W**



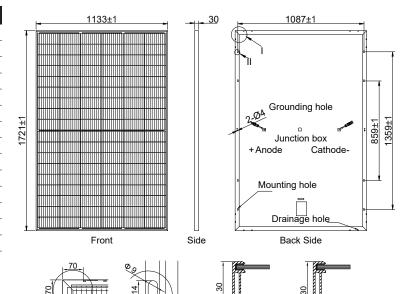


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Section A-A

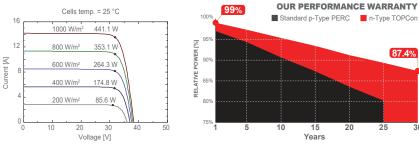
Section B-B

Mechanical	and design specification
Cell type	n-Type TOPCon Technology, Half-cut cells, 182 mm
No. of cells	108
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 <sup>2</sup> , 350 mm lenght or customized
Connectors	MC 4 / MC 4 compatible
Dimension	1721 mm x 1133 mm x 30 mm
Weight	20.3 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	936 pcs / 40 HQ			
Size / Pallet	1755 mm x 1140 mm x 1245 mm			
Weight	764 kg / pallet			

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



Mounting hole II

<b>Electrical specificat</b>	tions (STC*):	AE420CMD-108	AE425CMD-108	AE430CMD-108	AE435CMD-108	AE440CMD-108
Nominal Max. Power	P <sub>max</sub> (Wp)	420	425	430	435	440
Maximum operating voltage	V <sub>MPP</sub> (V)	32.04	32.25	32.43	32.64	32.84
Maximum operating current	I <sub>MPP</sub> (A)	13.11	13.18	13.26	13.33	13.40
Open-circuit voltage	V <sub>oc</sub> (V)	37.86	38.08	38.26	38.46	38.66
Short-circuit current	I <sub>sc</sub> (A)	14.03	14.10	14.17	14.23	14.30
Module efficiency	η (%)	21.54	21.80	22.05	22.31	22.57
Power tolerance	(W)			0~+5		
Maximum system Voltage	(V)			1500		
Maximum series fuse rating	(A)			25		

Drainage hole I

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

<b>Electrical specifications</b> (NMOT*):		AE420CMD-108	AE425CMD-108	AE430CMD-108	AE435CMD-108	AE440CMD-108
Nominal Max. Power	P <sub>max</sub> (Wp)	320.0	323.5	327.1	331.0	335.3
Maximum operating voltage	V <sub>MPP</sub> (V)	29.70	29.90	30.10	30.30	30.51
Maximum operating current	I <sub>MPP</sub> (A)	10.76	10.81	10.87	10.93	10.99
Open-circuit voltage	V <sub>oc</sub> (V)	35.80	36.00	36.20	36.40	36.60
Short-circuit current	I <sub>sc</sub> (A)	11.31	11.37	11.42	11.48	11.54

\*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.

