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## 395W-415W AEMD-108 Series

MONO-CRYSTALLINE PV MODULES HALF-CUT CELLS • MONO-FACIAL

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Ver. 24.1.1







CELL



RESISTANT



RESISTANT



SALT CORROSION RESISTANT



SAND RESISTANT



AMMONIA



HIGHLY STABLE AND TOUGH

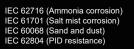








IEC 61215 IEC 61730 Regular Production Surveillance







## **AE MD-108 Series 395W-415W**





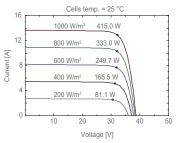
<b>Mechanical</b>	and design specification
Cell type	Gallium-doped Mono c-Si PERC, Half-cut cells, 182 mm
No. of cells	108
Front cover	3.2 mm glass, high transmission, AR coated, tempered
Encapsulation	EVA
Back cover	White backsheet
Junction box	IP68 rated, 3 Bypass Diodes
Frame	30 mm anodized Aluminium alloy
Cable	1 x 4 mm <sup>2</sup> , 350 mm length 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

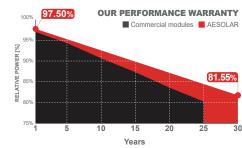
1133±1 1133±1 Front	30 Side	Grounding hole  Junction box + Anode Cathode-  Mounting hole  Drainage hole  Back Side	859±1 1359±1
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Packaging information					
Packaging configuration	36 pcs / pallet				
Loading capacity	936 pcs / 40 HQ				
Size / Pallet	1755 mm x 1140 mm x 1245 mm				
Weight	764 kg / pallet				

Front	Side		Back Side	
Drainage hole I	Mounting hole II	Section A-A	OE 115 Section B-B	

Temperature ratings					
Operating temperature	(°C)	-40 to +85			
Temp.coefficient of P <sub>max</sub>	(%/°C)	-0.35			
Temp.coefficient of Voc	(%/°C)	-0.275			
Temp.coefficient of I <sub>sc</sub>	(%/°C)	0.045			
Nom. operating temp. NOCT	(°C)	45 ± 2			





Electrical specificat	tions (STC*):	AE395MD-108	AE400MD-108	AE405MD-108	AE410MD-108	AE415MD-108
Nominal Max. Power	P <sub>max</sub> (Wp)	395	400	405	410	415
Maximum operating voltage	V <sub>MPP</sub> (V)	31.08	31.35	31.62	31.88	32.12
Maximum operating current	I <sub>MPP</sub> (A)	12.71	12.76	12.81	12.86	12.92
Open-circuit voltage	V <sub>oc</sub> (V)	37.36	37.69	38.02	38.35	38.67
Short-circuit current	I <sub>sc</sub> (A)	13.47	13.52	13.57	13.62	13.67
Module efficiency	η (%)	20.26	20.51	20.77	21.03	21.28
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%

<b>Electrical specifications</b> (NMOT*):		AE395MD-108	AE400MD-108	AE405MD-108	AE410MD-108	AE415MD-108
Nominal Max. Power	P <sub>max</sub> (Wp)	298	301	304	308	311
Maximum operating voltage	V <sub>MPP</sub> (V)	29.30	29.50	29.70	29.90	30.10
Maximum operating current	I <sub>MPP</sub> (A)	10.17	10.21	10.25	10.29	10.34
Open-circuit voltage	V <sub>oc</sub> (V)	35.20	35.40	35.60	35.80	36.00
Short-circuit current	I <sub>sc</sub> (A)	10.78	10.82	10.86	10.90	10.94

\*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.

