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**580W-600W** AE ME-120 Series

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

www.ae-solar.com

Ver. 24.1.1



HALF CELLS



CELL



LID RESISTANT



PID RESISTANT



SALT CORROSION RESISTANT



SAND RESISTANT



AMMONIA



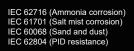
HIGHLY STABLE AND TOUGH















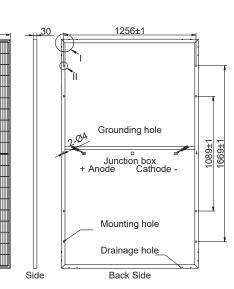
## **AE ME-120 Series 580W-600W**

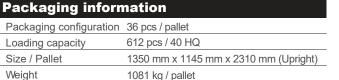
## MONO-CRYSTALLINE PV MODULES HALF-CUT CELLS • MONO-FACIAL



Mechanical	and design specification
Cell type	Gallium-doped Mono c-Si PERC, Half-cut cells, 210 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 mm <sup>2</sup> , 350 mm length or customized
Connectors	MC 4 / MC 4 compatible
Dimension	2171 mm x 1302 mm x 30 mm
Weight	29 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

10 mm	
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	+1
	2171±
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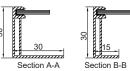




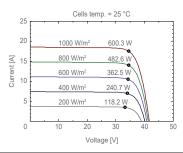


1302+1





Temperature ratings					
Operating temperature	(°C)	-40 to +85			
Temp.coefficient of P <sub>max</sub>	(%/°C)	-0.34			
Temp.coefficient of Voc	(%/°C)	-0.25			
Temp.coefficient of I <sub>sc</sub>	(%/°C)	0.040			
Nom. operating temp. NOCT	(°C)	43 ± 2			





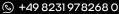
Electrical specifications (STC*):		AE580ME-120	AE585ME-120	AE590ME-120	AE595ME-120	AE600ME-120
Nominal Max. Power	P <sub>max</sub> (Wp)	580	585	590	595	600
Maximum operating voltage	V <sub>MPP</sub> (V)	33.60	33.80	34.00	34.20	34.40
Maximum operating current	I <sub>MPP</sub> (A)	17.26	17.31	17.35	17.40	17.44
Open-circuit voltage	V <sub>oc</sub> (V)	40.70	40.90	41.10	41.30	41.50
Short-circuit current	I <sub>sc</sub> (A)	17.81	18.37	18.42	18.47	18.52
Module efficiency	η (%)	20.52	20.70	20.87	21.05	21.23
Power tolerance	(W)			0~+5		
Maximum system Voltage	(V)			1500		
Maximum series fuse rating	(A)			30		

\*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*):	AE580ME-120	AE585ME-120	AE590ME-120	AE595ME-120	AE600ME-120
Nominal Max. Power	P <sub>max</sub> (Wp)	436	440	444	448	452
Maximum operating voltage	V <sub>MPP</sub> (V)	31.60	31.80	32.00	32.20	32.40
Maximum operating current	I <sub>MPP</sub> (A)	13.81	13.85	13.88	13.92	13.95
Open-circuit voltage	V <sub>oc</sub> (V)	37.90	38.10	38.30	38.50	38.70
Short-circuit current	I <sub>sc</sub> (A)	14.25	14.70	14.74	14.78	14.82

\*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



Size / Pallet

Weight