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15 years Product Warranty

580W-600WAE ME-120BS Series

MONO-CRYSTALLINE PV MODULES HALF-CUT CELLS • BIFACIAL • SINGLE-GLASS

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Ver. 24.1.1







CELL



LID



PID RESISTANT



SALT CORROSION



SAND RESISTANT



AMMONIA



HIGHLY STABLE AND TOUGH















AE ME-120BS Series 580W-600W





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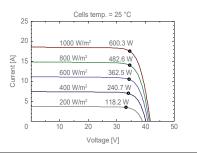
Mechanical and design specification						
Cell type	Gallium-doped Mono c-Si PERC, Half-cut cells, 210 mm					
No. of cells	120					
Front cover	3.2 mm glass, high transmission, AR coated, tempered					
Bifaciality	70 ± 5%					
Encapsulation	EVA					
Back cover	Transparent Backsheet					
Junction box	IP68 rated, 3 Bypass Diodes					
Frame	30 mm anodized Aluminium alloy					
Cable	1 x 4 mm ² , 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					

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		Drainage hole I	Mounting hole II		Section A-A	Section B-B

Packaging information						
Packaging configuration	36 pcs / pallet					
Loading capacity	612 pcs / 40 HQ					
Size / Pallet	1350 mm x 1145 mm x 2310 mm (Upright)					
Weight	1081 kg / pallet					

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





Electrical specifications (STC*):		AE580ME-120BS	AE585ME-120BS	AE590ME-120BS	AE595ME-120BS	AE600ME-120BS
Nominal Max. Power	P _{max} (Wp)	580	585	590	595	600
Maximum operating voltage	V _{MPP} (V)	33.60	33.80	34.00	34.20	34.40
Maximum operating current	I _{MPP} (A)	17.26	17.31	17.35	17.40	17.44
Open-circuit voltage	V _{oc} (V)	40.70	40.90	41.10	41.30	41.50
Short-circuit current	I _{sc} (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)			35		

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

Electrical specificat	ions (NMOT*):	AE580ME-120BS	AE585ME-120BS	AE590ME-120BS	AE595ME-120BS	AE600ME-120BS
Nominal Max. Power	P _{max} (Wp)	436	440	444	448	452
Maximum operating voltage	$V_{MPP}(V)$	31.60	31.80	32.00	32.20	32.40
Maximum operating current	I _{MPP} (A)	13.81	13.85	13.88	13.92	13.95
Open-circuit voltage	V _{oc} (V)	37.90	38.10	38.30	38.50	38.70
Short-circuit current	I _{sc} (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

