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530W-550WAE ME-110BD Series

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

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Ver. 24.1.1



HALF CELLS



CELL



LID



PID RESISTANT



SALT CORROSION



SAND RESISTANT



AMMONIA PESISTANT



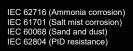
HIGHLY STABLE AND TOUGH















AE ME-110BD Series 530W-550W

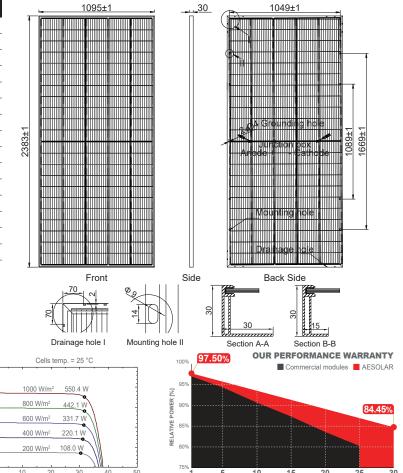




Mechanical and design specification				
Gallium-doped Mono c-Si PERC, Half-cut cells, 210 mm				
110				
70 ± 5%				
2.0 mm glass, high transmission, AR coated, tempered				
EVA				
2.0 mm, high transmission solar glass, tempered				
IP68 rated, 3 Bypass Diodes				
30 mm anodized Aluminium alloy				
1 x 4 mm ² , 350 mm length or customized				
MC 4 / MC 4 compatible				
2383 mm x 1095 mm x 30 mm				
32 kg				
Max. Ø 25 mm at 23 m/s				
2400 Pa or 244 kg/m²				
5400 Pa or 550 kg/m²				

Snow load 5400	Pa or 550 kg/m ²
Packaging inform	nation
Packaging configuration	36 pcs / pallet
Loading capacity	720 pcs / 40 HQ
Size / Pallet	1130 mm x 1140 mm x 2500 mm (upright)
Weight	1223 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 specificat	ions (STC*):	AE530ME-110BD	AE535ME-110BD	AE540ME-110BD	AE545ME-110BD	AE550ME-110BD
Nominal Max. Power	P _{max} (Wp)	530	535	540	545	550
Maximum operating voltage	$V_{MPP}(V)$	30.80	31.00	31.20	31.40	31.60
Maximum operating current	I _{MPP} (A)	17.21	17.28	17.33	17.37	17.40
Open-circuit voltage	V _{oc} (V)	37.10	37.30	37.50	37.70	37.90
Short-circuit current	I _{sc} (A)	18.31	18.36	18.41	18.47	18.52
Module efficiency	η (%)	20.31	20.50	20.69	20.89	21.08
Power tolerance	(W)			0~+5		
Maximum system Voltage	(V)			1500		
Maximum series fuse rating	(A)			35		

Voltage [V]

20

10

⊴ 15

Current

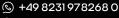
 $^{^{*}}$ STC: Standard test conditions (Irradiance 1000 W/m², Cell temperature 25°C and air mass of AM1.5), measurement tolerance P_{max} : $\pm 3\%$

Electrical specificat	ions (NMOT*):	AE530ME-110BD	AE535ME-110BD	AE540ME-110BD	AE545ME-110BD	AE550ME-110BD
Nominal Max. Power	P _{max} (Wp)	401	405	409	413	417
Maximum operating voltage	V _{MPP} (V)	28.60	28.80	29.00	29.20	29.30
Maximum operating current	I _{MPP} (A)	14.02	14.06	14.10	14.15	14.19
Open-circuit voltage	V _{oc} (V)	34.90	35.10	35.30	35.50	35.70
Short-circuit current	I _{sc} (A)	14.73	14.8	14.84	14.88	14.92

^{*}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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Years