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HIGHERERY YIELD RELIABILITY DURABILITY





530W-550W AEME-110BS Series

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

www.ae-solar.com

Ver. 24.1.1



HALF **CELLS**



CELL



RESISTANT



RESISTANT





SALT CORROSION



SAND RESISTANT



AMMONIA



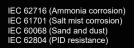
HIGHLY STABLE AND TOUGH















AE ME-110BS Series 530W-550W



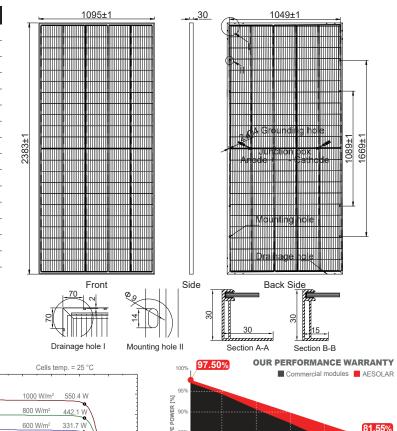


Machanical	and design specification
Mechanical	
Cell type	Gallium-doped Mono c-Si PERC, Half-cut cells, 210 mm
No. of cells	110
Bifaciality	70 ± 5%
Front cover	3.2 mm glass, high transmission, AR coated, tempered
Encapsulation	EVA
Back cover	Transparent Backsheet
Junction box	IP68 rated, 3 Bypass Diodes
Frame	30 mm anodized Aluminium alloy
Cable	1 x 4 mm ² , 350 mm length or customized
Connectors	MC 4 / MC 4 compatible
Dimension	2383 mm x 1095 mm x 30 mm
Weight	27 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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Packaging information					
Packaging configuration	36 pcs / pallet				
Loading capacity	720 pcs / 40 HQ				
Size / Pallet	1130 mm x 1140 mm x 2500 mm (upright)				
Weight	1009 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*):		AE530ME-110BS	AE535ME-110BS	AE540ME-110BS	AE545ME-110BS	AE550ME-110BS
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		

20

600 W/m²

400 W/m²

220.1 W

108.0 W

Voltage [V]

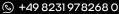
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^{*}STC: Standard test conditions (Irradiance 1000 W/m², Cell temperature 25°C and air mass of AM1.5), measurement tolerance Pmax: ±3%

Electrical specificat	ions (NMOT*):	AE530ME-110BS	AE535ME-110BS	AE540ME-110BS	AE545ME-110BS	AE550ME-110BS
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



sales@ae-solar.com



81.55%

Years