



AESOLAR

since 2003



AURORA

HIGH ENERGY YIELD
RELIABILITY
DURABILITY

30
years

Performance
Warranty

15
years

Product
Warranty

530W-550W

AE ME-110 Series

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

www.ae-solar.com

Ver. 24.1.1

110

HALF
CELLS

210
mm

CELL
SIZE



LID
RESISTANT



PID
RESISTANT



SALT CORROSION
RESISTANT



SAND
RESISTANT



AMMONIA
RESISTANT

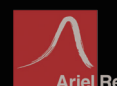


HIGHLY STABLE
AND TOUGH



IEC 61215 IEC 61730
Regular Production Surveillance
www.tuv.com
ID 1111251295

IEC 62716 (Ammonia corrosion)
IEC 61701 (Salt mist corrosion)
IEC 60068 (Sand and dust)
IEC 62804 (PID resistance)



AE ME-110 Series 530W-550W



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

Mechanical and design specification

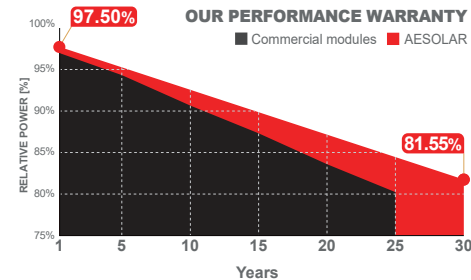
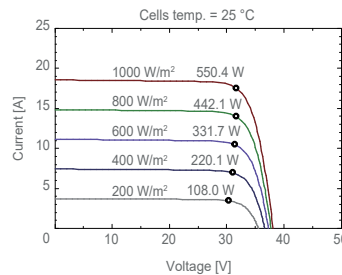
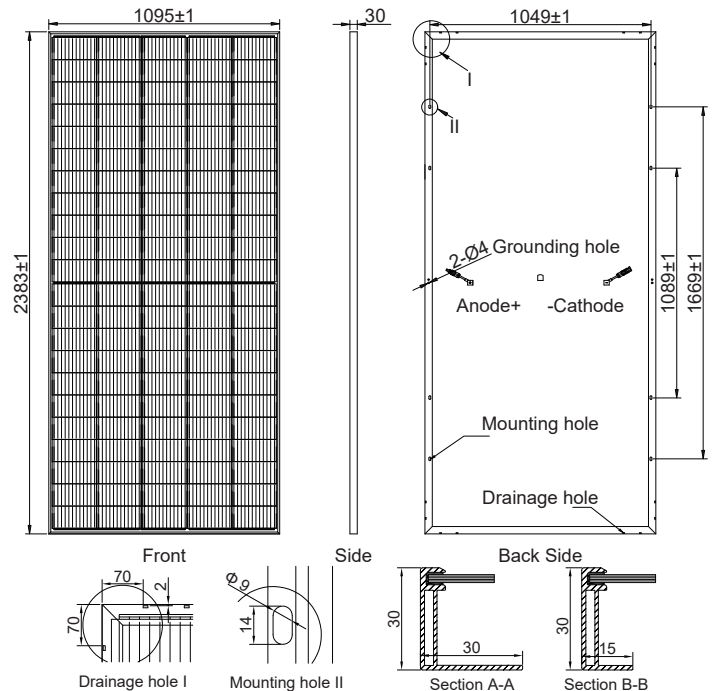
Cell type	Gallium-doped Mono c-Si PERC, Half-cut cells, 210 mm
No. of cells	110
Front cover	3.2 mm glass, high transmission, AR coated, tempered
Encapsulation	EVA
Back cover	White backsheet
Junction box	IP68 rated, 3 Bypass Diodes
Frame	30 mm anodized Aluminium alloy
Cable	1 x 4 mm ² , 350 mm length 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/m ²
Snow load	5400 Pa or 550 kg/m ²

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 V_{oc}	(%/°C)	-0.25
Temp.coefficient of I_{sc}	(%/°C)	0.040
Nom. operating temp. NOCT	(°C)	43 ± 2



Electrical specifications (STC*):		AE530ME-110	AE535ME-110	AE540ME-110	AE545ME-110	AE550ME-110
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)	30				

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

Electrical specifications (NMOT*):		AE530ME-110	AE535ME-110	AE540ME-110	AE545ME-110	AE550ME-110
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	14.80	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.