
 Deutsche
 Qualität
 Garantiert



110

HALF
CELLS

210
mm

CELL
SIZE



LID
RESISTANT



PID
RESISTANT



SALT CORROSION
RESISTANT



SAND
RESISTANT



AMMONIA
RESISTANT



HIGHLY STABLE
AND TOUGH



AURORA

HIGH ENERGY YIELD
RELIABILITY
DURABILITY

30

years
Performance
Guarantee

15

years
Product
Warranty

Apple

Apple

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

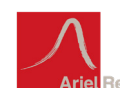
530W-550W

AE ME-110E Series



IEC 61215
IEC 61730
Regular Production Surveillance
Type Tested and Monitored

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



www.ae-solar.com

Mechanical and design specification

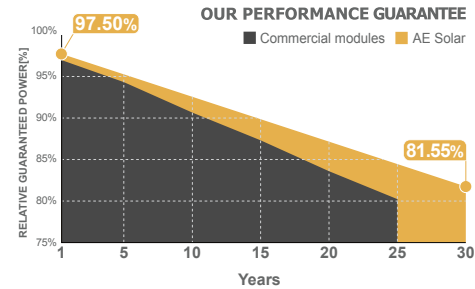
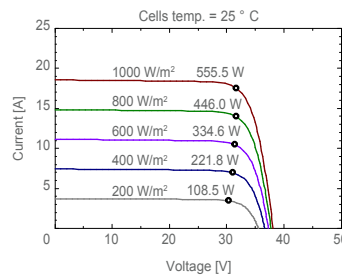
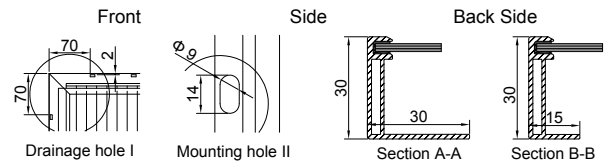
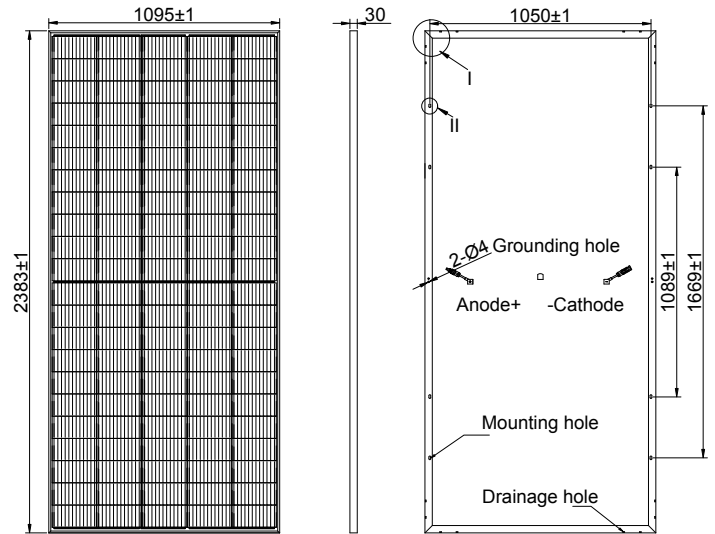
Cell type	Gallium-doped Mono c-Si PERC, Half-cut cells, 210 mm
No. of cells	110
Glass	3.2 mm, high transmission, AR coated, tempered
Encapsulation	EVA
Back cover	EVA-side Black, Rear-side White Backsheet
Junction box	IP 68 rated
Frame	30 mm anodized Aluminium alloy
Cable	1 x 4 mm ² , 350 mm length or customized
Connectors	MC 4 / MC 4 compatible
Dimension	2383 mm x 1095 mm x 30 mm
Weight	28 kg
Hail resistance	Max. Ø 25 mm at 23 m/s
Wind load	2400 Pa/ 244 kg/ m ²
Mechanical load	5400 Pa/ 550 kg/ m ²

Packaging information

Packaging configuration	36 pcs / Palett
Loading capacity	720 pcs / 40 HQ
Size / Pallet	1130 mm x 1140 mm x 2500 mm (upright)
Weight	1045 kg / Palett

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)	0.04
Nom. operating temp. NOCT	(°C)	43 ± 2



Electrical specifications (STC*):		AE530ME-110E	AE535ME-110E	AE540ME-110E	AE545ME-110E	AE550ME-110E
Nominal Max. Power	P _{max} (Wp)	530	535	540	545	550
Maximum operating voltage	V _{MPP} (V)	30.8	31.0	31.2	31.4	31.6
Maximum operating current	I _{MPP} (A)	17.21	17.28	17.33	17.37	17.4
Open-circuit voltage	V _{oc} (V)	37.1	37.3	37.5	37.7	37.9
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)

Electrical specifications (NMOT*):		AE530ME-110E	AE535ME-110E	AE540ME-110E	AE545ME-110E	AE550ME-110E
Nominal Max. Power	P _{max} (Wp)	401	405	409	413	417
Maximum operating voltage	V _{MPP} (V)	28.6	28.8	29.0	29.2	29.3
Maximum operating current	I _{MPP} (A)	14.02	14.06	14.10	14.15	14.19
Open-circuit voltage	V _{oc} (V)	34.9	35.1	35.3	35.5	35.7
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.