

Deutsche
Qualität
Garantiert



110

HALF
CELLS

210
mm

CELL
SIZE



LID
RESISTANT



SALT CORROSION
RESISTANT



SAND
RESISTANT



AMMONIA
RESISTANT



HIGHLY STABLE
AND TOUGH



AUROLA

HIGH ENERGY YIELD RELIABILITY DURABILITY

30

years

Performance
Guarantee

30

years

Product
Warranty

30

12

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

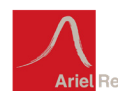
530W-550W

AE ME-110 Series



IEC 61215
IEC 61730
Regular Production Surveillance
Type Tested and Monitored

IEC 62716 (Ammonia corrosion)(optional)
IEC 61701 (Salt mist corrosion)(optional)
IEC 60068 (Sand and dust)(optional)



www.ae-solar.com

AE ME-110 Series 530W-550W

Mechanical and design specification

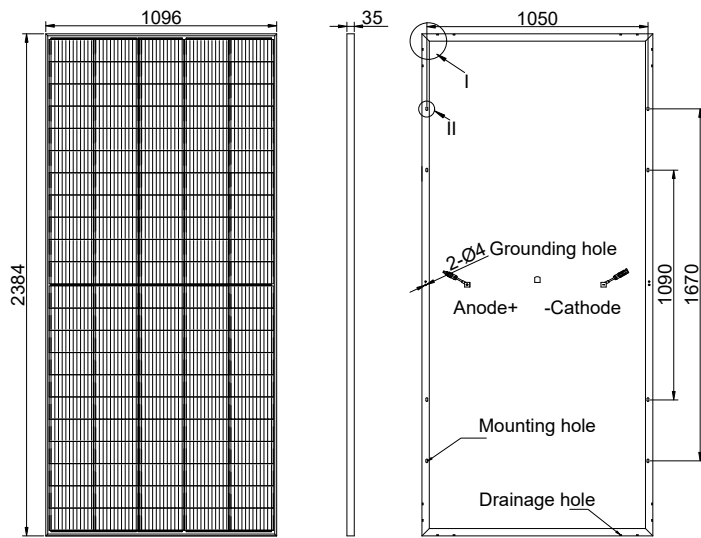
Cell type	Gallium-doped Mono c-Si PERC, Half-cut cells, 210 mm
No. of cells	110
Glass	3.2 mm, high transmission, AR coated, tempered
Encapsulation	EVA
Back cover	White backsheet
Junction box	IP 68 rated
Frame	35 mm anodized Aluminium alloy
Cable	1 x 4 mm ² , 350 mm length or customized
Connectors	MC 4 - EVO2
Dimension	2384 mm x 1096 mm x 35 mm
Weight	28.6 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
Fire Rating	Class C (according to UL790)

Packaging information

Packaging configuration	31 pcs / pallet
Loading capacity	620 pcs / 40 HQ
Size / Pallet	1130 mm x 1140 mm x 2500 mm (upright)
Weight	924 kg / pallet

Temperature ratings

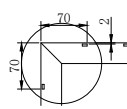
Operating temperature	(°C)	-40 to +85
Temp.coefficient of P_{max}	(%/°C)	-0.34
Temp.coefficient of V_{oc}	(%/°C)	-0.25
Temp.coefficient of I_{sc}	(%/°C)	0.04
Nom. operating temp. NOCT	(°C)	43 ± 2



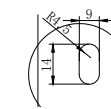
Front

Side

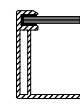
Back Side



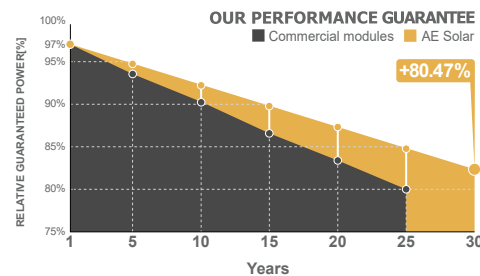
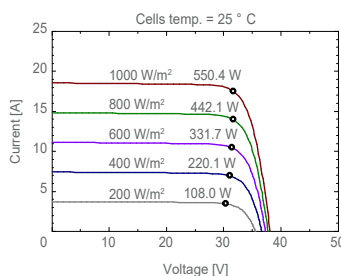
Drainage hole I



Mounting hole II



Section A-A



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)	30.8	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 (%)	20.28	20.48	20.67	20.86	21.05
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)
Power measurement tolerance: ± 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)	28.6	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)

Country of Manufacturer: China

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.

