

Deutsche
Qualität
Garantiert



120

HALF
CELLS

210
mm

CELL
SIZE



LID
RESISTANT



SALT CORROSION
RESISTANT



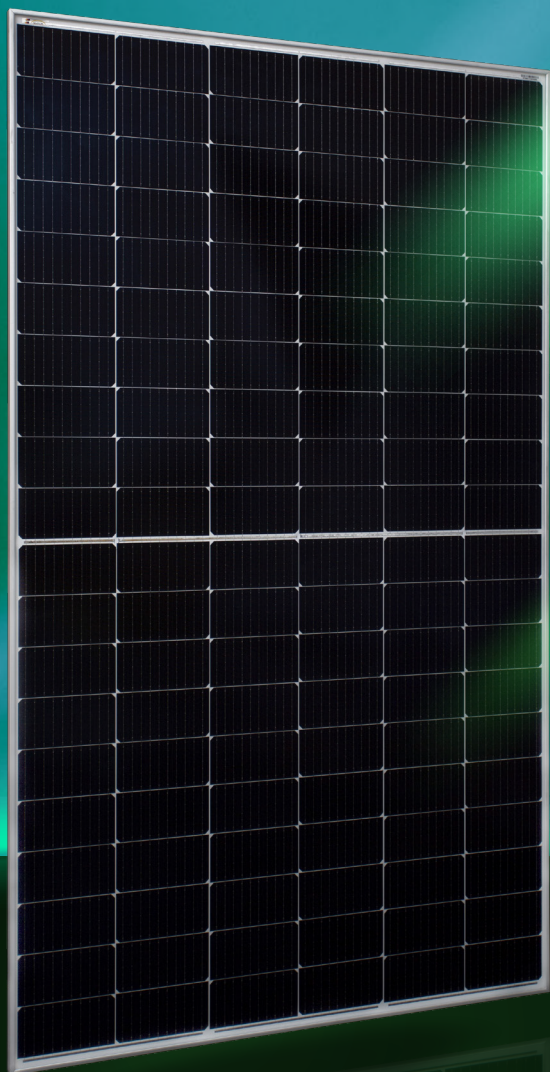
SAND
RESISTANT



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

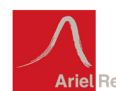
580W-600W

AE ME-120 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

Mechanical and design specification

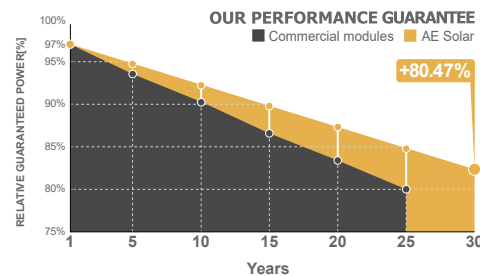
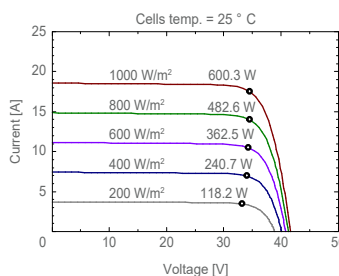
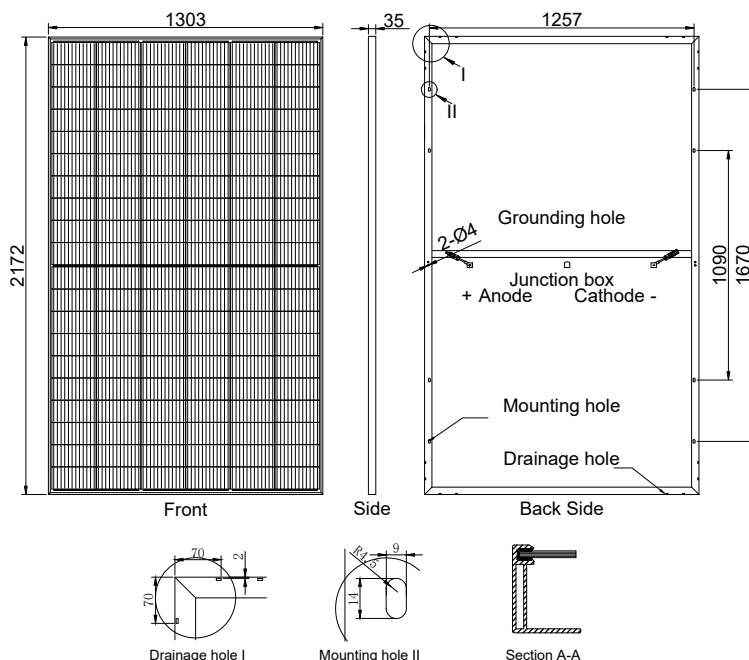
Cell type	Gallium-doped Mono c-Si PERC, Half-cut cells, 210 mm
No. of cells	120
Glass	3.2 mm, high transmission, AR coated, tempered
Encapsulation	EVA
Back cover	White backsheet
Junction box	IP 68 rated
Frame	35 mm anodized Aluminium alloy
Cable	1 x 4 mm ² , 350 mm length or customized
Connectors	MC 4 - EVO2
Dimension	2172 mm x 1303 mm x 35 mm
Weight	30.9 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	527 pcs / 40 HQ
Size / Pallet	1350 mm x 1145 mm x 2310 mm (Stand on end)
Weight	996 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



Electrical specifications (STC*):		AE580ME-120	AE585ME-120	AE590ME-120	AE595ME-120	AE600ME-120
Nominal Max. Power	P_{max} (Wp)	580	585	590	595	600
Maximum operating voltage	V_{MPP} (V)	33.60	33.80	34.00	34.20	34.40
Maximum operating current	I_{MPP} (A)	17.26	17.31	17.35	17.40	17.44
Open-circuit voltage	V_{oc} (V)	40.70	40.90	41.10	41.30	41.50
Short-circuit current	I_{sc} (A)	17.81	18.37	18.42	18.47	18.52
Module efficiency	η (%)	20.49	20.67	20.85	21.02	21.20
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*):		AE580ME-120	AE585ME-120	AE590ME-120	AE595ME-120	AE600ME-120
Nominal Max. Power	P_{max} (Wp)	436	440	444	448	452
Maximum operating voltage	V_{MPP} (V)	31.60	31.80	32.00	32.20	32.40
Maximum operating current	I_{MPP} (A)	13.81	13.85	13.88	13.92	13.95
Open-circuit voltage	V_{oc} (V)	37.90	38.10	38.30	38.50	38.70
Short-circuit current	I_{sc} (A)	14.25	14.70	14.74	14.78	14.82

*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.

