



AESOLAR

since 2003



AURORA

HIGH ENERGY YIELD RELIABILITY DURABILITY

30
years
Performance
Warranty

15
years
Product
Warranty

580W-600W

AE ME-120 Series

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

www.ae-solar.com

Ver. 23.12.1



120

HALF
CELLS



210
mm

CELL
SIZE



LID
RESISTANT



PID
RESISTANT



SALT CORROSION
RESISTANT



SAND
RESISTANT



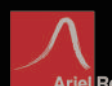
AMMONIA
RESISTANT



HIGHLY STABLE
AND TOUGH



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



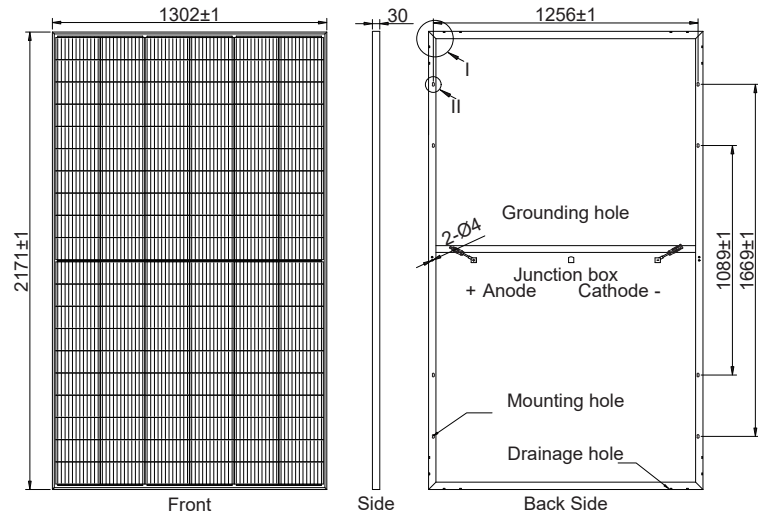
AE ME-120 Series 580W-600W



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	120
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	2171 mm x 1302 mm x 30 mm
Weight	29 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

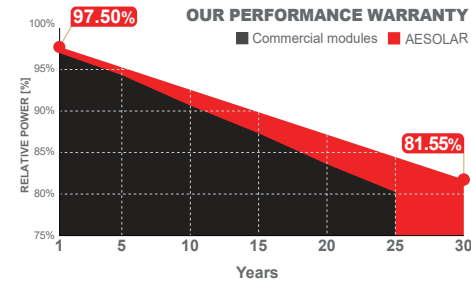
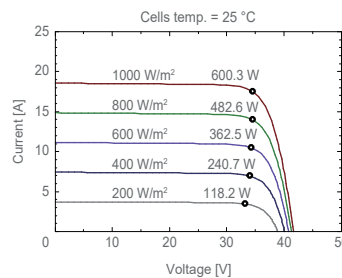
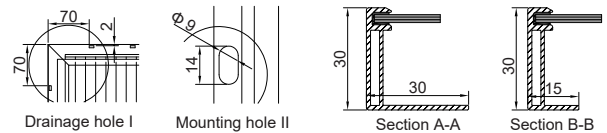


Packaging information

Packaging configuration	36 pcs / pallet
Loading capacity	612 pcs / 40 HQ
Size / Pallet	1350 mm x 1145 mm x 2310 mm (Upright)
Weight	1081 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*):		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 (%)	20.52	20.70	20.87	21.05	21.23
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*):		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)

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.



+216 98 366 669
contact@hydroelec-tn.com
www.hydroelec-tn.com/
Lot 68 Rue Khlidia zone industriel
Mghira lFouchena 2082 Ben arous, Tunis



+49 8231 978268 0
sales@ae-solar.com
www.ae-solar.com

AESOLAR
Messerschmittring 54
86343 Königsbrunn, Germany

