

Deutsche
Qualität
Garantiert



120

HALF
CELLS

166
mm

CELL
SIZE



LID
RESISTANT



PID
RESISTANT



SALT CORROSION
RESISTANT



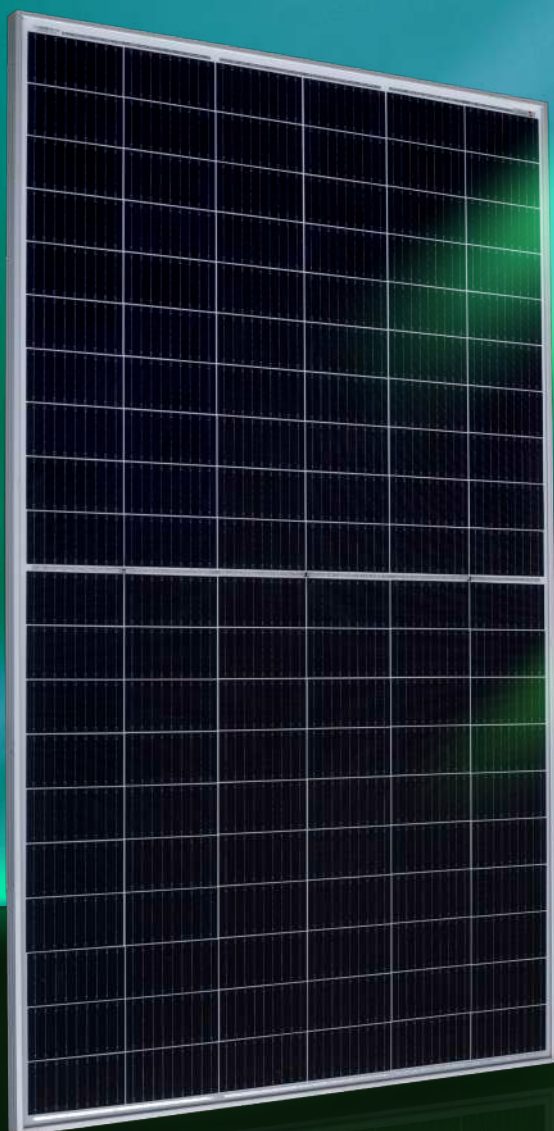
SAND
RESISTANT



AMMONIA
RESISTANT



HIGHLY STABLE
AND TOUGH



AURORA

HIGH ENERGY YIELD RELIABILITY DURABILITY

30

years
Performance
Guarantee

15

years
Product
Warranty

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

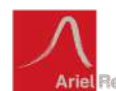
370W-380W

AE MC-120 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)

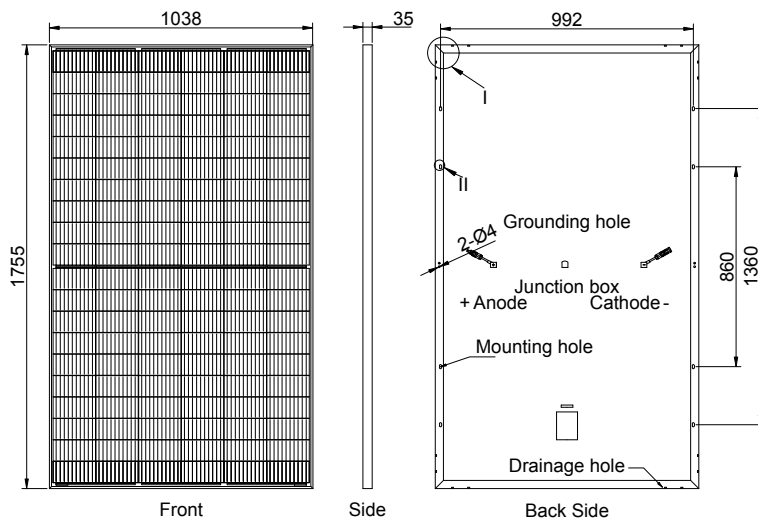


www.ae-solar.com

AE MC-120 Series 370W-380W

Mechanical and design specification

Cell type	Gallium-doped Mono c-Si PERC, Half-cut cells, 166 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 / MC 4 compatible
Dimension	1755 mm x 1038 mm x 35 mm
Weight	19.5 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

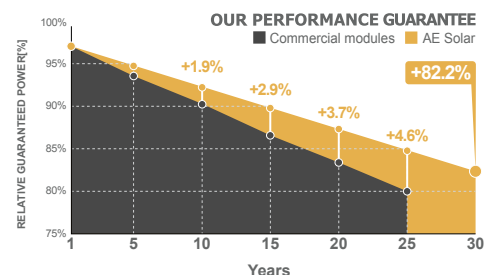
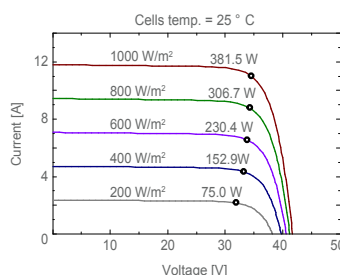
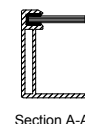
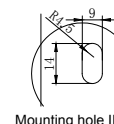


Packaging information

Packaging configuration	64 pcs / double pallet
Loading capacity	832 pcs / 40 HQ
Size / Pallet	1790 mm x 1140 mm x 2415 mm
Weight	1354 kg / double pallets

Temperature ratings

Operating temperature	(°C)	-40 to +85
Temp.coefficient of P_{max}	(%/°C)	-0.37
Temp.coefficient of V_{oc}	(%/°C)	-0.286
Temp.coefficient of I_{sc}	(%/°C)	0.057
Nom. operating temp. NOCT	(°C)	45 ± 2



Electrical specifications (STC*):		AE370MC-120	AE375MC-120	AE380MC-120
Nominal Max. Power	P_{max} (Wp)	370	375	380
Maximum operating voltage	V_{MPP} (V)	34.4	34.6	34.8
Maximum operating current	I_{MPP} (A)	10.76	10.84	10.92
Open-circuit voltage	V_{oc} (V)	41.3	41.5	41.7
Short-circuit current	I_{sc} (A)	11.60	11.70	11.80
Module efficiency	η (%)	20.31	20.59	20.86
Power tolerance	(W)		0~+5	
Maximum system Voltage	(V)		1500	
Maximum series fuse rating	(A)		20	

*STC: Standard test conditions (Irradiance 1000 W/m², Cell temperature 25°C and air mass of AM1.5)

Electrical specifications (NMOT*):		AE370MC-120	AE375MC-120	AE380MC-120
Nominal Max. Power	P_{max} (Wp)	279	283	287
Maximum operating voltage	V_{MPP} (V)	32.40	32.60	32.80
Maximum operating current	I_{MPP} (A)	8.60	8.67	8.74
Open-circuit voltage	V_{oc} (V)	38.90	39.10	39.30
Short-circuit current	I_{sc} (A)	9.28	9.36	9.44

*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.

