

FEATURES

120

HALF
CELLS

166
mm

CELL
SIZE



LID
RESISTANT



PID
RESISTANT



SALT CORROSION
RESISTANT



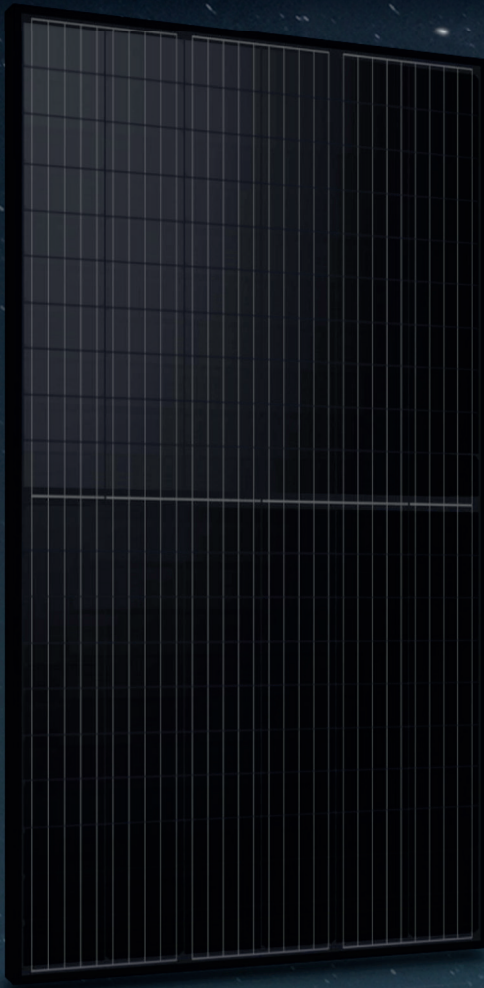
SAND
RESISTANT



AMMONIA
RESISTANT



HIGHLY STABLE
AND TOUGH



HIGH ENERGY YIELD
RELIABILITY
DURABILITY

30

years

Performance
Guarantee

20

years

Product
Warranty

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

Mechanical and design specification

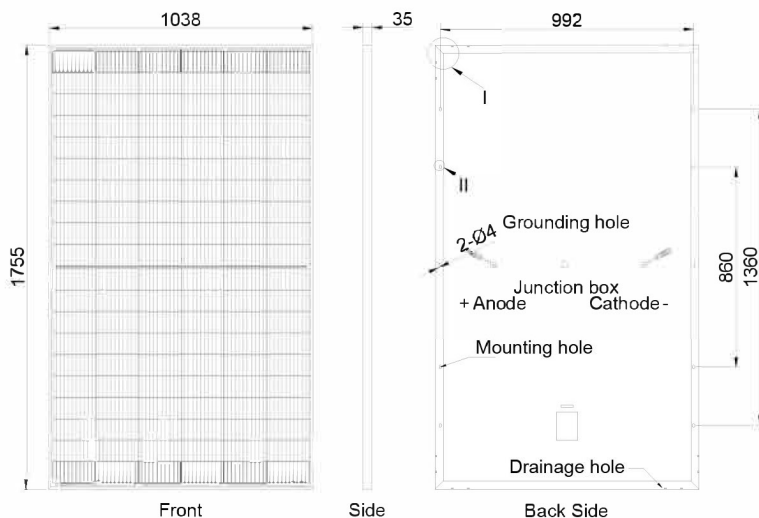
Cell type	Gallium-doped Mono c-Si PERC, Half-cut cells, 166 mm
No. of cells	120
Glass	3.2 mm, high transmission, AR coated, tempered
Encapsulation	EVA
Back cover	Black backsheet
Junction box	IP 68 rated
Frame	35 mm anodized Aluminium alloy
Cable	1 x 4 mm ² , 1200 mm length or customized
Connectors	MC 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

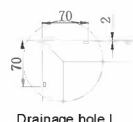
Operating temperature	(°C)	-40 to +85
Temp.coefficient of P_{max}	(%/°C)	-0.37
Temp.coefficient of V_{oc}	(%/°C)	-0.286
Temp.coefficient of I_{sc}	(%/°C)	0.057
Nom. operating temp. NOCT	(°C)	45 ± 2



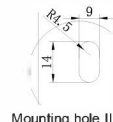
Front

Side

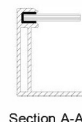
Back Side



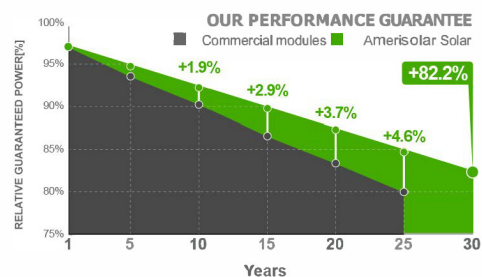
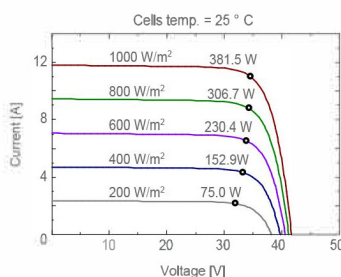
Drainage hole I



Mounting hole II



Section A-A



Electrical specifications (STC*):		Amerisolar370MC-120	Amerisolar375MC-120	Amerisolar380MC-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*):		Amerisolar370MC-120	Amerisolar375MC-120	Amerisolar380MC-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)