



ERDM SOLAR

POR NUESTRA TIERRA

ERDM 450 M10-60*2

Rated Power 450-465W



MBB Cell

New circuit design, lower internal current, lower internal resistance loss.



Harsh Environmental Adaptability

Strict salt spray and ammonia corrosion test by TUV Nord



Low Light Features

Higher performance under low light environment.



PID Protection

Ensure the attenuation probability caused by PID phenomenon is minimized



Load Capacity

Mechanical load tests including wind load 2400 Pa and snow load 5400 Pa done by TUV Nord.



Higher Output Power

Module adopts 120 pcs of 182*182mm half cells, the maximum power can reach 465W

1.0% 1st year Degradation

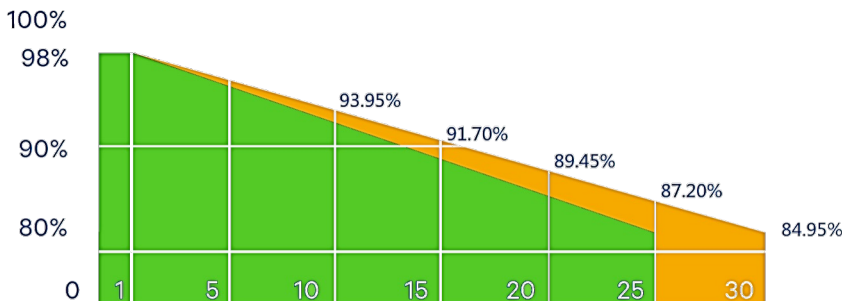
0.55% Annual degradation



Standar Module



ERDM Monocrystalline Module Linear Performance warranty



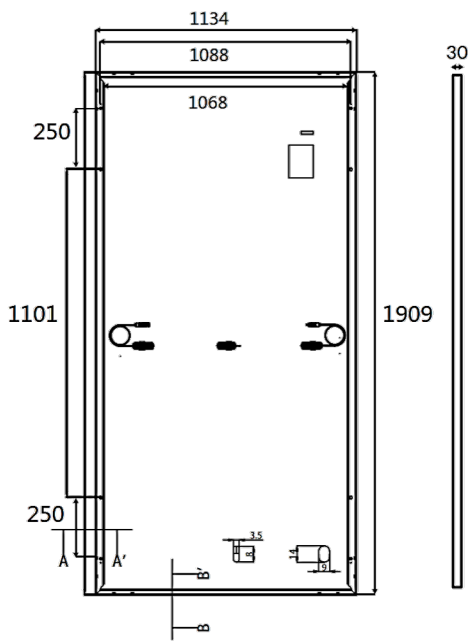
*J-PEC Product



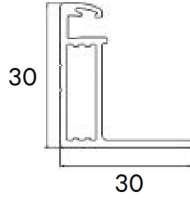
IEC 61215-2: 2016
IEC 61730-2: 2016

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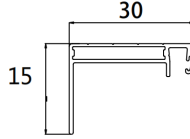
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Frame cross section A-A



Frame cross section B-B



SPECIFICATIONS

Type cell	Monocrystalline 182 x 182 mm
Cell Amount	60*2
Junction Box	IP68
Cable	4mm ² , N 1200mm/P 1200mm
Connector	MC4 Compatible
Frame	Aluminum Alloy 6063 T5
Weight	23 +/- 0.5 Kg
Dimensions	1909 x 1134 x 30 mm (2.16 m ²)

ELECTRICAL PARAMETERS (STC of irradiance of 1000 W/m², spectrum AM 1.5 and cell temperature of 25°C)

Power	450	455	460	465
Open Circuit Voltage Voc (V)	41.40	41.60	41.80	42.00
Maximun Power Voltage Vmp (V)	34.70	34.90	35.20	35.40
Short Circuit Current Isc (A)	13.68	13.73	13.78	13.83
Maximum Power Current Imp (A)	12.96	13.02	13.08	13.14
Module Efficiency (%)	20.79	21.02	21.25	21.48

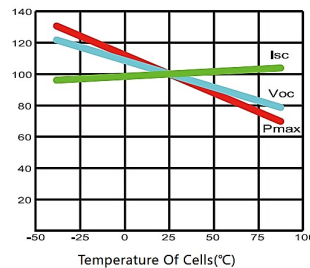
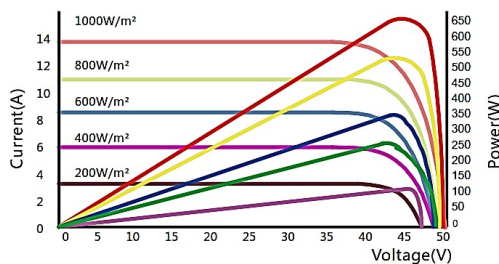
ELECTRICAL PARAMETERS (NMOT irradiance of 800 W/m², spectrum AM 1.5, ambient temperature 20°C, wind speed 1 m/s.)

Power	331	335	339	343
Open Circuit Voltage Voc (V)	38.68	38.88	39.08	39.28
Maximun Power Voltage Vmp (V)	32.34	32.54	32.74	32.94
Short Circuit Current Isc (A)	10.78	10.83	10.88	10.93
Maximum Power Current Imp (A)	10.24	10.30	10.35	10.40
Module Efficiency (%)	15.29	15.47	15.66	15.84

MAXIMUM RATING

TEMPERATURE CHARACTERISTICS

Maximum System Voltage	1500V DC (IEC)	NMOT	41 +/- 3 °C
Fuse Current	25 A	Temp Coefficient of Pmax	-0.36 %/°C
Operating Temperature	-40 -+85 °C	Temp Coefficient of Voc	-0.28 %/°C
Wind Load/Snow Load	2400pa / 5400pa	Temp Coefficient of Isc	+0.05 %/°C



30 YEARS POWER WARRANTY