

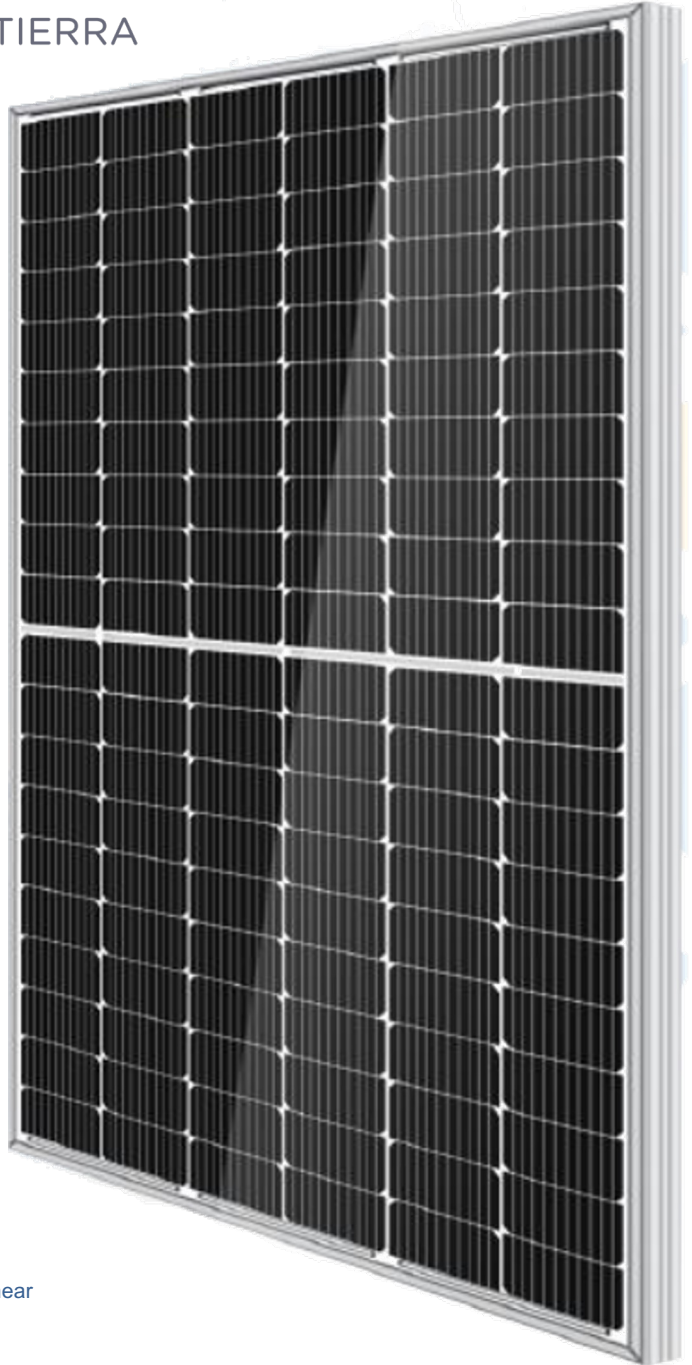


ERDM SOLAR

POR NUESTRA TIERRA

ERDM 450 M10-60*2 BF

Rated Power 440-460W



No risk of spontaneous detonation



Bifacial Module is 30% lighter than Dual-Glass Module



Bifacial cells, provide an additional output



Ability to breath, The inner CH₃COOH can be released



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.

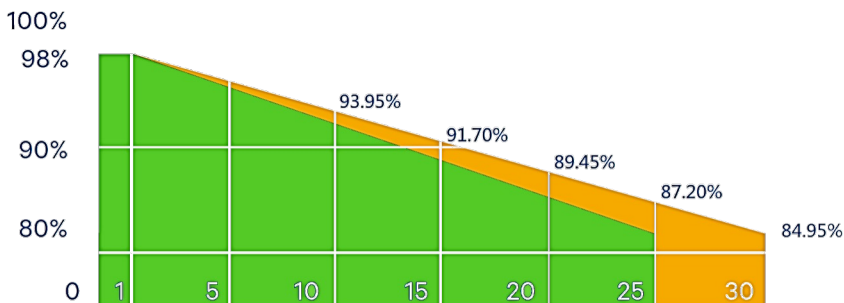


Higher Output Power
Module adopts 182*182 mm half cells, bifacial module provide an additional 5%~25% output.

1.0% 1st year Degradation

0.55% Annual degradation

■ Standar Module
■ ERDM Monocrystalline Module Linear Performance warranty

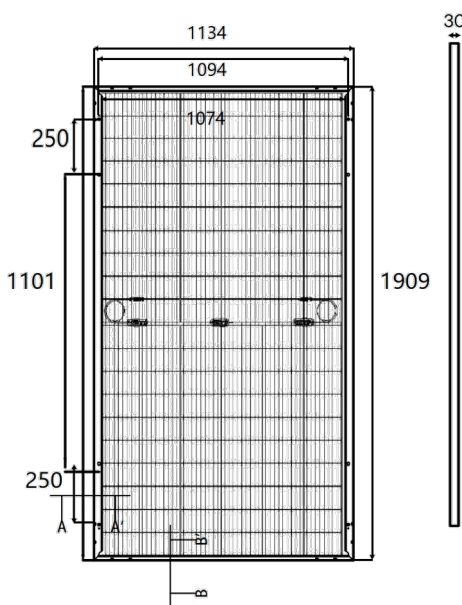


*J-PEC Product

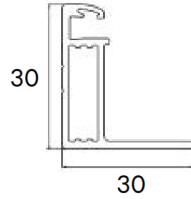


IEC 61215-2: 2016
IEC 61730-2: 2016

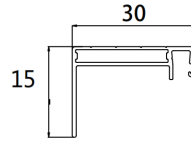
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Frame cross section A-A



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)

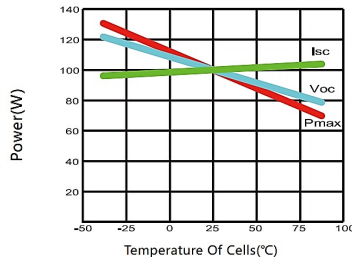
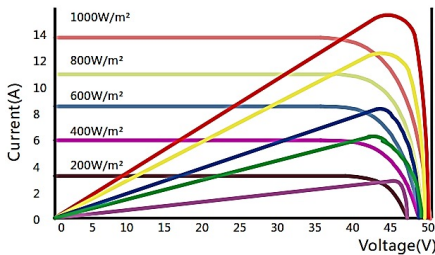
Power	440	445	450	455	460
Open Circuit Voltage Voc (V)	41	41.20	41.40	41.60	41.80
Maximum Power Voltage Vmp (V)	34.20	34.50	34.70	34.90	35.20
Short Circuit Current Isc (A)	13.58	13.63	13.68	13.73	13.78
Maximum Power Current Imp (A)	12.84	12.90	12.96	13.02	13.08
Module Efficiency (%)	20.33	20.56	20.79	21.02	21.25

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

Power	324	328	331	335	339
Open Circuit Voltage Voc (V)	38.28	38.48	36.68	38.88	39.08
Maximum Power Voltage Vmp (V)	31.94	32.14	32.34	32.54	32.74
Short Circuit Current Isc (A)	10.68	10.73	10.78	10.83	10.88
Maximum Power Current Imp (A)	10.14	10.21	10.24	10.30	10.35
Module Efficiency (%)	14.97	15.15	15.29	15.47	15.66

ELECTRICAL PARAMETERS (10% BIFACIAL POWER OUTPUT)

Power	484	490	495	501	506
Open Circuit Voltage Voc (V)	41.00	41.20	41.40	41.60	41.80
Maximum Power Voltage Vmp (V)	34.20	34.40	34.60	34.80	35.00
Short Circuit Current Isc (A)	14.94	14.99	15.05	15.10	15.16
Maximum Power Current Imp (A)	14.15	14.23	14.31	14.38	14.46



TEMPERATURE CHARACTERISTICS / MAXIMUM RATING

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

30 YEARS POWER WARRANTY