



ERDM SOLAR

POR NUESTRA TIERRA

ERDM 645 M12-66*2 BF

Rated Power 645-665W



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 210*210 mm half cells, bifacial module provide an additional 5%~25% output.

1.0% 1st year Degradation

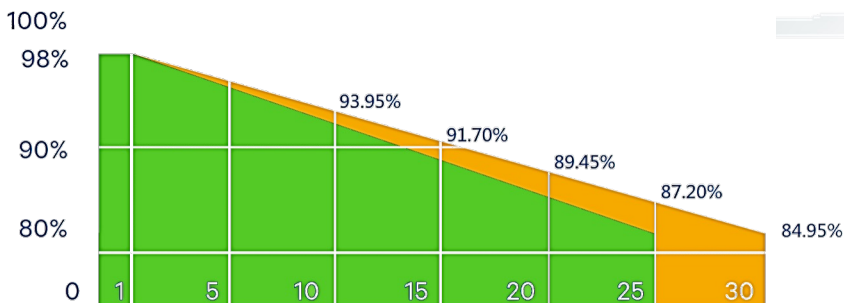
0.55% Annual degradation



Standar Module



ERDM Monocrystalline Module Linear Performance warranty

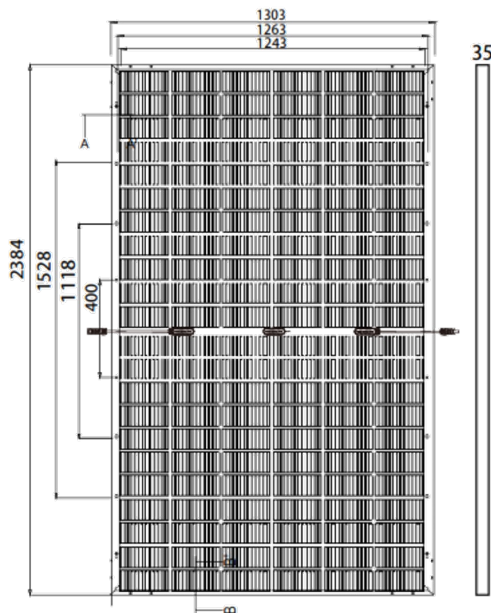


*J-PEC Product

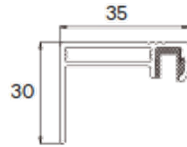


IEC 61215-2: 2016
IEC 61730-2: 2016

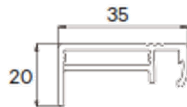
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Frame cross section A-A



Frame cross section B-B



SPECIFICATIONS

Type cell	Monocrystalline 210 x 210 mm
Cell Amount	66*2
Junction Box	IP68
Cable	4mm ² , N 320mm / P 320mm
Connector	MC4 Compatible
Frame	Aluminum Alloy 6063 T5
Weight	34 +/- 0.5 Kg
Dimensions	2384 x 1303 x 35 mm (2.77 m ²)

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

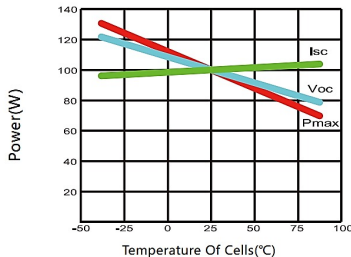
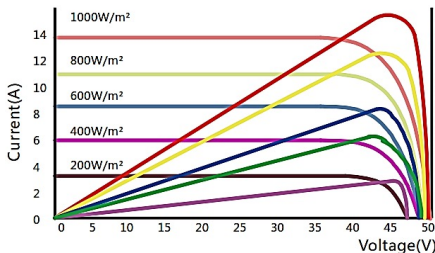
Power	645	650	655	660	665
Open Circuit Voltage Voc (V)	45.38	45.58	45.78	45.98	46.18
Maximun Power Voltage Vmp (V)	37.41	37.61	37.81	38.01	38.21
Short Circuit Current Isc (A)	18.11	18.16	18.21	18.26	18.31
Maximum Power Current Imp (A)	17.24	17.28	17.32	17.36	17.40
Module Efficiency (%)	20.76	20.92	21.09	21.25	21.41

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

Power	488	491	495	499	503
Open Circuit Voltage Voc (V)	42.11	42.30	42.48	42.67	42.86
Maximun Power Voltage Vmp (V)	34.68	34.86	35.05	35.24	35.42
Short Circuit Current Isc (A)	14.85	14.89	14.93	14.97	15.01
Maximum Power Current Imp (A)	14.06	14.09	14.13	14.16	14.19
Module Efficiency (%)	15.70	15.82	15.94	16.06	16.18

ELECTRICAL PARAMETERS (10% BIFACIAL POWER OUTPUT)

Power	690	696	701	706	711
Open Circuit Voltage Voc (V)	45.38	45.58	45.78	45.98	46.18
Maximun Power Voltage Vmp (V)	37.41	37.61	37.81	38.01	38.21
Short Circuit Current Isc (A)	19.38	19.43	19.48	19.53	19.58
Maximum Power Current Imp (A)	18.45	18.49	18.54	18.59	18.64



TEMPERATURE CHARACTERISTICS / MAXIMUM RATING

NMOT	41 +/- 3 °C
Temp Coefficient of Pmax	-0.34 %/°C
Temp Coefficient of Voc	-0.25 %/°C
Temp Coefficient of Isc	+0.04 %/°C
Maximum System Voltage	1500V DC (IEC)
Fuse Current	30 A
Operating Temperature	-40 +85 °C
Wind Load/Snow Load	2400pa / 5400pa

30 YEARS POWER WARRANTY