



# ERDM SOLAR

POR NUESTRA TIERRA

## ERDM 610 M10-78\*2 BF N Type

Rated Power 610-625W



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 CH<sub>3</sub>COOH can be released



### Célula MBB N-Type

New circuit design N-type cells, can increase the output power of 10W-20W.



### 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\*182mm half cells, bifacial module provide an additional 5%~25% output.

1.0% 1st year Degradation

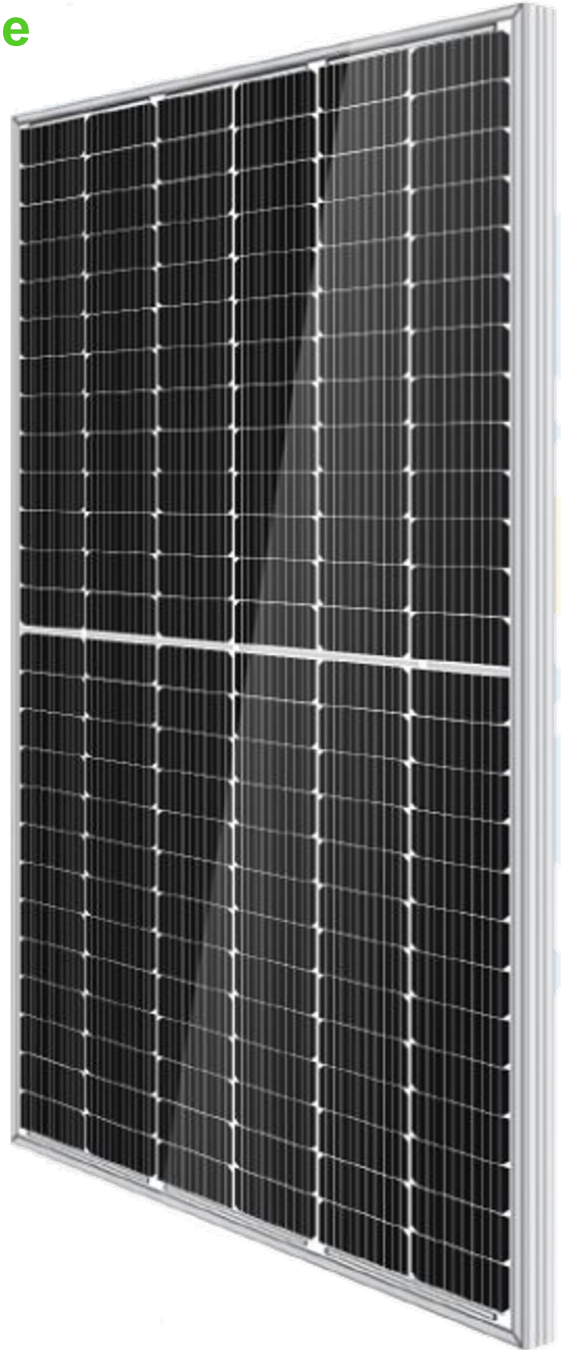
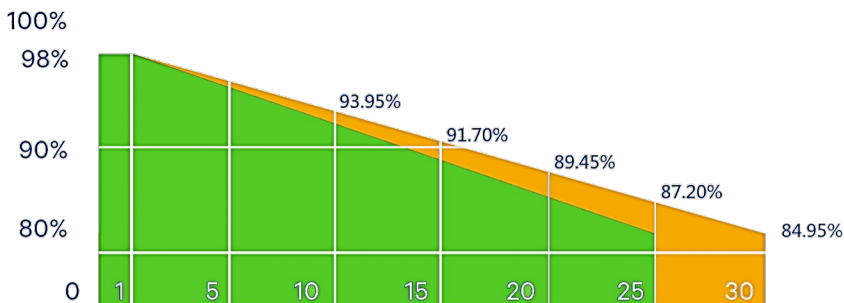
0.55% Annual degradation



Standar Module



ERDM Monocrystalline Module Linear Performance warranty

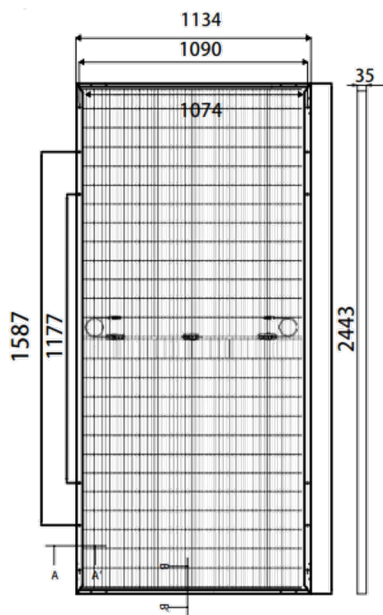


\*J-PEC Product

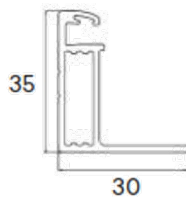


IEC 61215-2: 2016  
IEC 61730-2: 2016

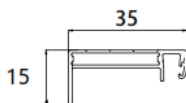
The information contained in this data sheet is subject to change without notice and is for informational purposes only.



Frame cross section A-A



Frame cross section B-B



**SPECIFICATIONS**

|              |  |
|--------------|--|
| Type cell    | Monocrystalline 182 x 182 mm               |
| Cell Amount  | 78*2                                       |
| Junction Box | IP68                                       |
| Cable        | 4mm <sup>2</sup> , N 300mm / P 300mm       |
| Connector    | MC4 Compatible                             |
| Frame        | Aluminum Alloy 6063 T5                     |
| Weight       | 29 +/- 0.5 Kg                              |
| Dimensions   | 2443 x 1134 x 35 mm (2.77 m <sup>2</sup> ) |

**ELECTRICAL PARAMETERS (STC of irradiance of 1000 W/m<sup>2</sup>, spectrum AM 1.5 and cell temperature of 25°C)**

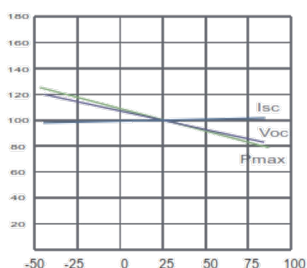
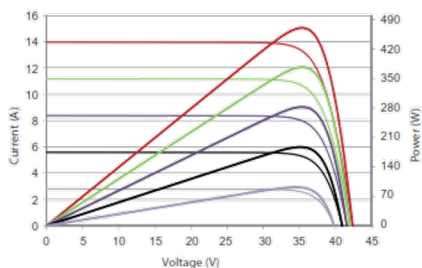
|                               |            |            |            |            |
|-------------------------------|------------|------------|------------|------------|
| Power                         | <b>565</b> | <b>570</b> | <b>575</b> | <b>580</b> |
| Open Circuit Voltage Voc (V)  | 50.68      | 50.82      | 50.96      | 51.09      |
| Maximun Power Voltage Vmp (V) | 41.99      | 42.14      | 42.29      | 42.42      |
| Short Circuit Current Isc (A) | 14.21      | 14.29      | 14.37      | 14.45      |
| Maximum Power Current Imp (A) | 13.46      | 13.53      | 13.60      | 13.67      |
| Module Efficiency (%)         | 21.86      | 22.06      | 22.25      | 22.44      |

**ELECTRICAL PARAMETERS (NMOT irradiance of 800 W/m<sup>2</sup>, spectrum AM 1.5, ambient temperature 20°C, wind speed 1 m/s.)**

|                               |            |            |            |            |
|-------------------------------|------------|------------|------------|------------|
| Power                         | <b>459</b> | <b>463</b> | <b>467</b> | <b>470</b> |
| Open Circuit Voltage Voc (V)  | 52.56      | 52.70      | 52.84      | 52.98      |
| Maximun Power Voltage Vmp (V) | 42.38      | 42.49      | 42.61      | 42.72      |
| Short Circuit Current Isc (A) | 11.37      | 11.43      | 11.48      | 11.54      |
| Maximum Power Current Imp (A) | 10.83      | 10.89      | 10.95      | 11.01      |
| Module Efficiency (%)         | 16.57      | 16.71      | 16.86      | 16.97      |

**ELECTRICAL PARAMETERS (10% BIFACIAL POWER OUTPUT)**

|                               |            |            |            |            |
|-------------------------------|------------|------------|------------|------------|
| Power                         | <b>671</b> | <b>677</b> | <b>682</b> | <b>688</b> |
| Open Circuit Voltage Voc (V)  | 55.34      | 55.49      | 55.64      | 55.79      |
| Maximun Power Voltage Vmp (V) | 45.68      | 45.78      | 45.88      | 45.98      |
| Short Circuit Current Isc (A) | 15.44      | 15.52      | 15.61      | 15.69      |
| Maximum Power Current Imp (A) | 14.69      | 14.78      | 14.86      | 14.95      |



**TEMPERATURE CHARACTERISTICS / MAXIMUM RATING**

|                          |                 |
|--------------------------|-----------------|
| NMOT                     | 41 +/- 3 °C     |
| Temp Coefficient of Pmax | -0.30 %/°C      |
| Temp Coefficient of Voc  | -0.25 %/°C      |
| Temp Coefficient of Isc  | +0.046 %/°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**