

# LP182\*182-M-54-MB Bifacial Double Glass

Rated Power 390-410W



**MBB Cell**  
New circuit design, lower internal current, lower internal resistance loss.



**Low Light Features**  
Higher performance under low light environment.



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



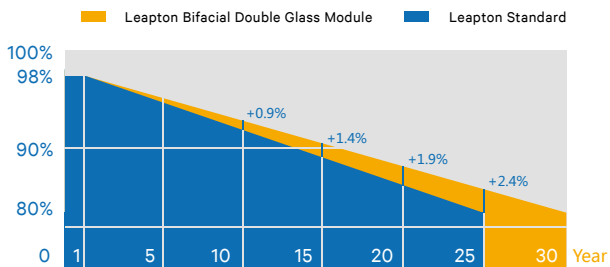
**PID Protection**  
Ensure the attenuation probability caused by PID phenomenon is minimized.



**Harsh Environmental Adaptability**  
Strict salt spray and ammonia corrosion test by TUV Nord.



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



\*J-PEC Product



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

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Manufacturer : Leapton Solar (Changshu) Co., Ltd.

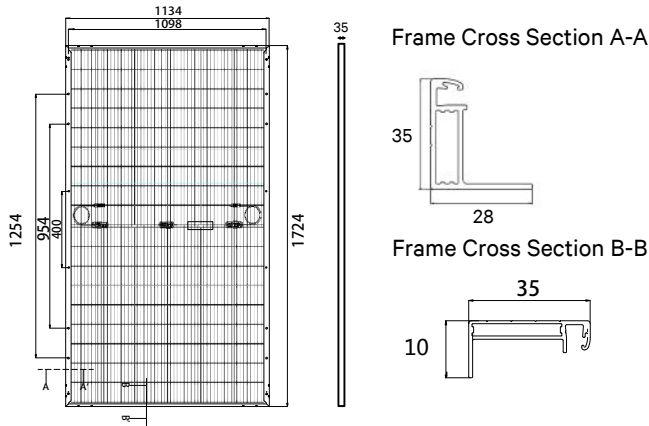
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## MECHANICAL DIAGRAMS



## SPECIFICATIONS

|                        |  |
|------------------------|--|
| Weight                 | 24.5kg   |
| Dimensions             | 1724mm*1134mm*35mm   |
| Cell Dimensions        | 182*182mm  |
| Cell Amount            | 54*2 pcs   |
| Maximum System Voltage | 1500V  |
| Junction Box           | IP68   |
| Frame                  | Aluminum Alloy   |
| Cable                  | 4mm <sup>2</sup> , Landscape: N 1100mm/P 1100mm<br>Portrait: N 200mm/P 300mm |
| Connector              | MC4 compatible   |
| Application Level      | Class A  |

## ELECTRICAL PARAMETERS AT STC

|                       |        |        |        |        |        |
|-----------------------|--------|--------|--------|--------|--------|
| Power                 | 390W   | 395W   | 400W   | 405W   | 410W   |
| Open Circuit Voltage  | 36.54V | 36.74V | 36.94V | 37.14V | 37.34V |
| Short Circuit Current | 13.50A | 13.55A | 13.60A | 13.65A | 13.70A |
| Maximum Power Voltage | 30.42V | 30.62V | 30.92V | 31.12V | 31.32V |
| Maximum Power Current | 12.82A | 12.88A | 12.94A | 13.00A | 13.06A |
| Module Efficiency     | 19.95% | 20.20% | 20.46% | 20.72% | 20.97% |

\* Under Standard Test Conditions (STC) of irradiance of 1000 W/m<sup>2</sup>, spectrum AM 1.5 and cell temperature of 25°C.

## ELECTRICAL PARAMETERS AT NMOT

|                       |        |        |        |        |        |
|-----------------------|--------|--------|--------|--------|--------|
| Power                 | 287W   | 291W   | 295W   | 298W   | 302W   |
| Open Circuit Voltage  | 34.09V | 34.29V | 34.49V | 34.69V | 34.89V |
| Short Circuit Current | 10.60A | 10.65A | 10.70A | 10.75A | 10.80A |
| Maximum Power Voltage | 28.38V | 28.58V | 28.78V | 28.98V | 29.18V |
| Maximum Power Current | 10.11A | 10.18A | 10.25A | 10.28A | 10.35A |
| Module Efficiency     | 14.68% | 14.88% | 15.09% | 15.24% | 15.45% |

\* Under Nominal Module Operating Temperature (NMOT), irradiance of 800 W/m<sup>2</sup>, spectrum AM 1.5, ambient temperature 20°C, wind speed 1 m/s.

## ELECTRICAL PARAMETERS ( 13.5% BIFACIAL POWER OUTPUT )

|                       |        |        |        |        |        |
|-----------------------|--------|--------|--------|--------|--------|
| Output Power          | 443W   | 448W   | 454W   | 460W   | 465W   |
| Open Circuit Voltage  | 36.54V | 36.74V | 36.94V | 37.14V | 37.34V |
| Short Circuit Current | 15.34A | 15.41A | 15.48A | 15.55A | 15.62A |
| Maximum Power Voltage | 30.42V | 30.62V | 30.82V | 31.02V | 31.22V |
| Maximum Power Current | 14.55A | 14.64A | 14.73A | 14.82A | 14.91A |

## TEMPERATURE CHARACTERISTICS

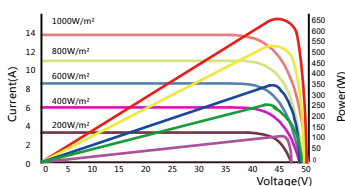
|                         |           |                          |           |
|-------------------------|-----------|--------------------------|-----------|
| NMOT                    | 41±3°C    | Temp Coefficient of ISC  | +0.05%/°C |
| Temp Coefficient of VOC | -0.28%/°C | Temp Coefficient of Pmax | -0.36%/°C |

## PACKING CONFIGURATION

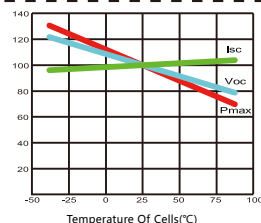
|                     |   |                      |            |
|---------------------|---|----------------------|------------|
| Modules/Pallet      | 31 Pieces                               | Modules/40'Container | 806 Pieces |
| Packing Description | 26 Pallets, Total=(31+31)x13=806 Pieces |                      |            |

## CHARACTERISTICS

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## MAXIMUM RATING

|                       |               |
|-----------------------|---------------|
| Output Tolerance      | 0~+5W         |
| Operating Temperature | -40°C~+85°C   |
| Wind Load/Snow Load   | 2400pa/5400pa |
| Fuse Current          | 25A           |

**15** YEARS Quality Warranty

**30** YEARS Power Warranty

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