



Monofacial

Bifacial

# LP182\*182-M-60-MH

Rated Power 450-465W



## MBB Cell

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



## Low Light Features

Higher performance under low light environment.



## Higher Output Power

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



## 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.

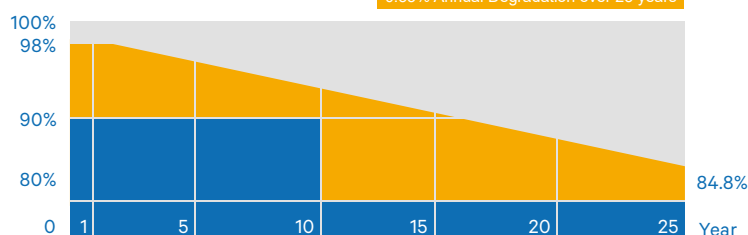


## Load Capacity

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

Leapton Linear Power Warranty Industry Warranty

0.55% Annual Degradation over 25 years



\*J-PEC Product



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

Headquarter : Leapton Energy Co., Ltd.

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

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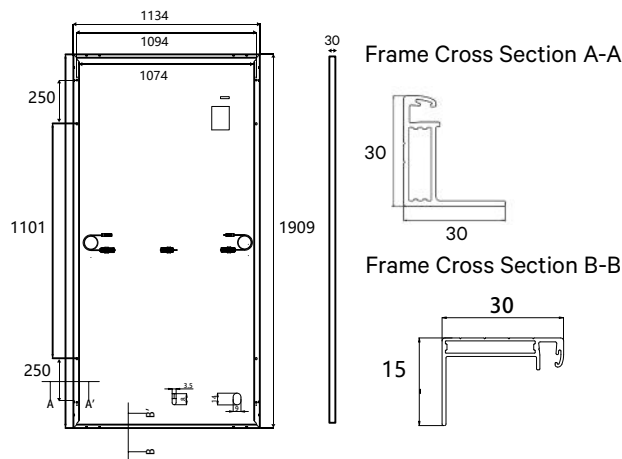
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## MECHANICAL DIAGRAMS



## SPECIFICATIONS

|                        |                                                           |
|------------------------|-----------------------------------------------------------|
| Weight                 | 23kg                                                      |
| Dimensions             | 1909mm*1134mm*30mm                                        |
| Cell Dimensions        | 182*182mm                                                 |
| Cell Amount            | 60*2 pcs                                                  |
| Maximum System Voltage | 1500V                                                     |
| Junction Box           | IP68                                                      |
| Frame                  | Aluminum Alloy                                            |
| Cable                  | 4mm <sup>2</sup> , N 1200mm/P 1200mm or customized length |
| Connector              | MC4 compatible                                            |
| Application Level      | Class A                                                   |

## ELECTRICAL PARAMETERS AT STC

|                       |        |        |        |        |
|-----------------------|--------|--------|--------|--------|
| Power                 | 450W   | 455W   | 460W   | 465W   |
| Open Circuit Voltage  | 41.40V | 41.60V | 41.80V | 42.00V |
| Short Circuit Current | 13.68A | 13.73A | 13.78A | 13.83A |
| Maximum Power Voltage | 34.70V | 34.90V | 35.20V | 35.40V |
| Maximum Power Current | 12.96A | 13.02A | 13.08A | 13.14A |
| Module Efficiency     | 20.79% | 21.02% | 21.25% | 21.48% |

\* 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                 | 331W   | 335W   | 339W   | 343W   |
| Open Circuit Voltage  | 38.68V | 38.88V | 39.08V | 39.28V |
| Short Circuit Current | 10.78A | 10.83A | 10.88A | 10.93A |
| Maximum Power Voltage | 32.34V | 32.54V | 32.74V | 32.94V |
| Maximum Power Current | 10.24A | 10.30A | 10.35A | 10.40A |
| Module Efficiency     | 15.29% | 15.47% | 15.66% | 15.84% |

\* 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.

## TEMPERATURE CHARACTERISTICS

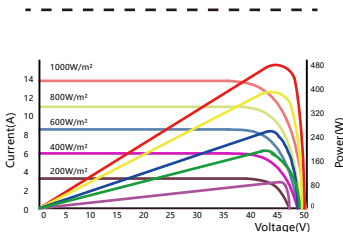
|                         |           |                          |           |
|-------------------------|-----------|--------------------------|-----------|
| NMOT                    | 41±3°C    | Temp Coefficient of ISC  | +0.05%/°C |
| Temp Coefficient of VOC | -0.28%/°C | Temp Coefficient of Pmax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

## PACKING CONFIGURATION

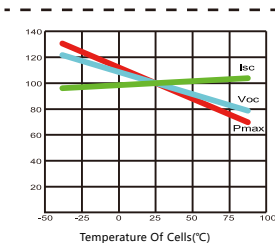
|                     |                                         |                      |            |
|---------------------|-----------------------------------------|----------------------|------------|
| Modules/Pallet      | 36 Pieces                               | Modules/40'Container | 864 Pieces |
| Packing Description | 24 Pallets, Total=(36+36)x12=864 Pieces |                      |            |

## CHARACTERISTICS

LP182\*182-M-60-MH-450W



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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           |



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