

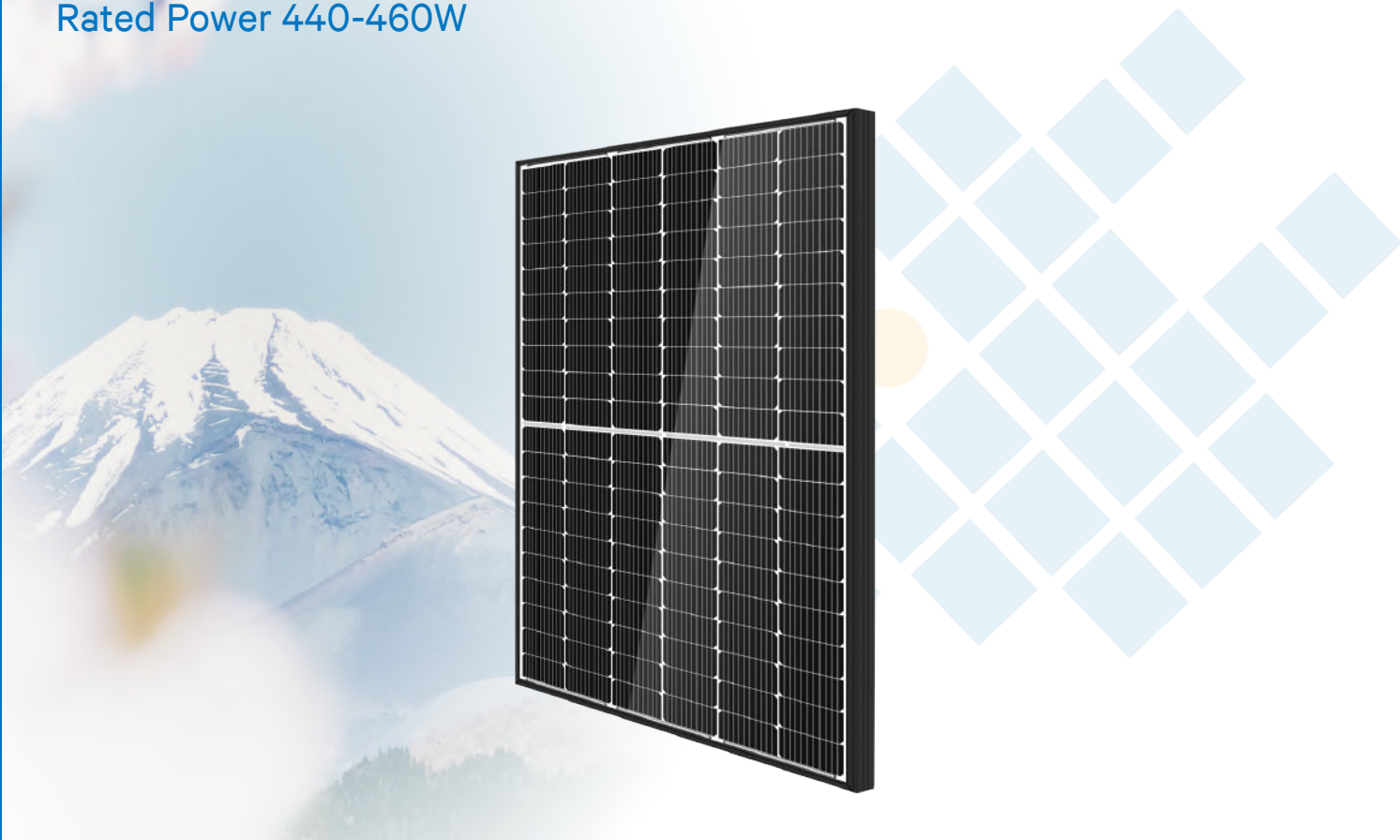


Monocrystalline

Polycrystalline

# LP182\*182-M-60-MH

Rated Power 440-460W



**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 460W.



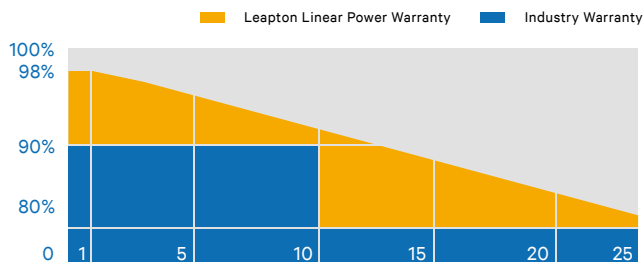
**PID Protection**  
Ensure the attenuation probability caused by PID phenomenon is minimized.



**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

Headquarter : Leapton Energy Co., Ltd.

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

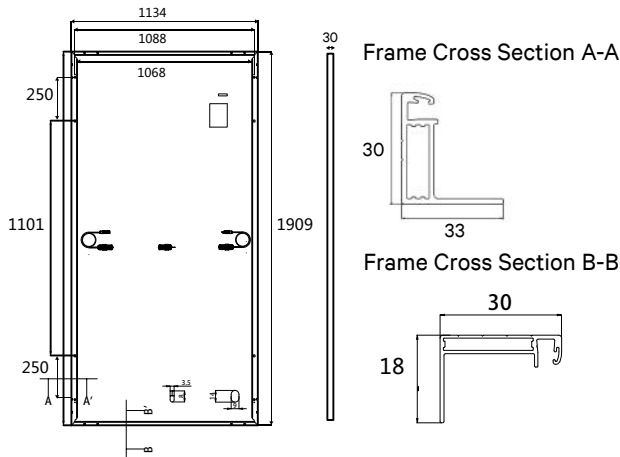
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### MECHANICAL DIAGRAMS



### SPECIFICATIONS

|                        |  |
|------------------------|--|
| Weight                 | 23.5kg   |
| 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> , Landscape: N 1200mm/P 1200mm<br>Portrait: N 200mm/P 300mm |
| Connector              | MC4 compatible   |
| Application Level      | Class A  |

### ELECTRICAL PARAMETERS AT STC

|                       |        |        |        |        |        |
|-----------------------|--------|--------|--------|--------|--------|
| Power                 | 440W   | 445W   | 450W   | 455W   | 460W   |
| Open Circuit Voltage  | 41.00V | 41.20V | 41.40V | 41.60V | 41.80V |
| Short Circuit Current | 13.58A | 13.63A | 13.68A | 13.73A | 13.78A |
| Maximum Power Voltage | 34.20V | 34.50V | 34.70V | 34.90V | 35.20V |
| Maximum Power Current | 12.84A | 12.90A | 12.96A | 13.02A | 13.08A |
| Module Efficiency     | 20.33% | 20.56% | 20.79% | 21.02% | 21.25% |

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

\* 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

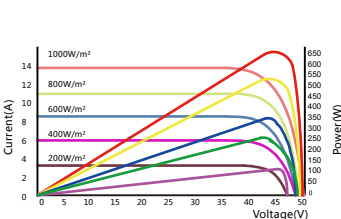
|                         |           |                          |           |
|-------------------------|-----------|--------------------------|-----------|
| NMOT                    | 41±3°C    | Temp Coefficient of ISC  | +0.05%/°C |
| Temp Coefficient of VOC | -0.28%/°C | Temp Coefficient of Pmax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

### PACKING CONFIGURATION

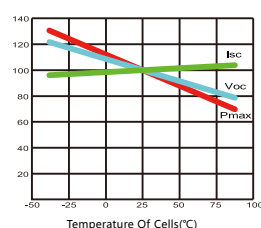
|                     |   |                      |            |
|---------------------|---|----------------------|------------|
| Modules/Pallet      | 36 Pieces                               | Modules/40'Container | 864 Pieces |
| Packing Description | 24 Pallets, Total=(36+36)x12=864 Pieces |     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

### CHARACTERISTICS

LP182\*182-M-60-MH-440W



LP182\*182-M-60-MH-440W



### 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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