



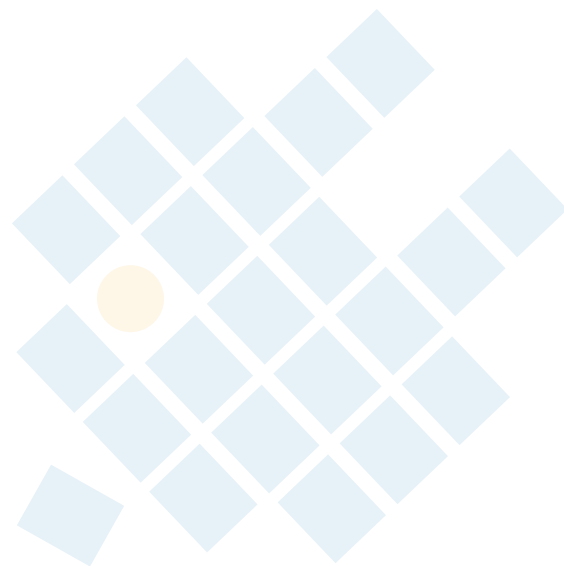
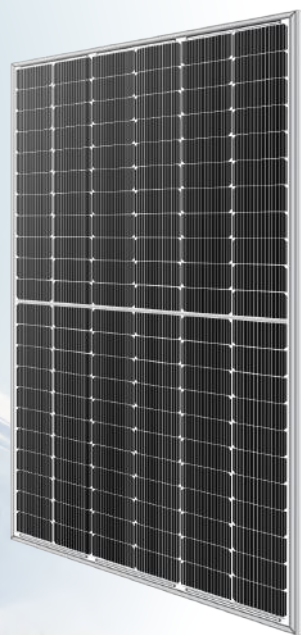
Monofacial

Bifacial

LP182\*199-M-66-NH

N-Type TOPCon

Rated Power 570-590W

**N-Type MBB Cell**

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

**Low Light Features**

Higher performance under low light environment.

**Higher Output Power**

Module adopts 182\*199mm half cells, the maximum power can reach 590W.

**Load Capacity**

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

**Harsh Environmental Adaptability**

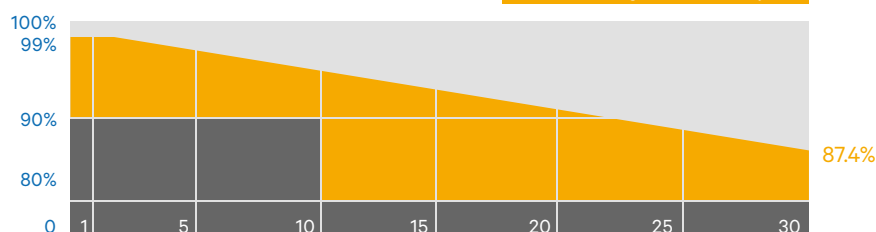
Strict salt spray and ammonia corrosion test by TUV Nord.

**PID Protection**

Ensure the attenuation probability caused by PID phenomenon is minimized.

■ Leapton Energy N-Type Linear Power Warranty
 ■ Industry Warranty

0.4% Annual Degradation over 30 years



Headquarter : Leapton Energy Co., Ltd.

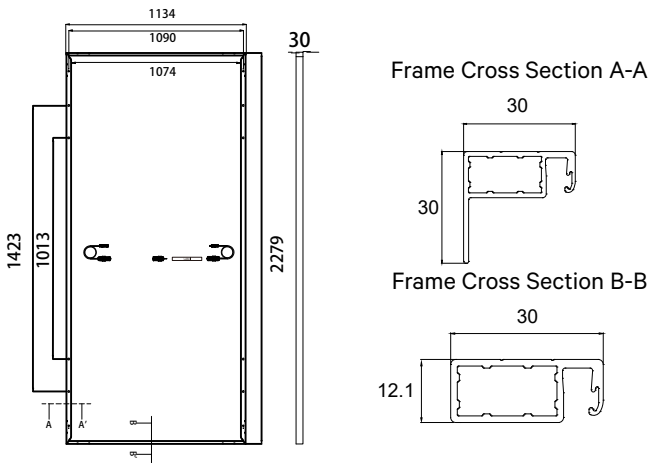
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Manufacturer : Leapton Solar (Changshu) Co., Ltd.

No.9, Sunshine Avenue, Changshu City, Jiangsu, China

www.leaptonpv.com

### MECHANICAL DIAGRAMS



### SPECIFICATIONS

|                        |                                                                                                                                  |
|------------------------|----------------------------------------------------------------------------------------------------------------------------------|
| Weight                 | 27kg                                                                                                                             |
| Dimensions             | 2279mm*1134mm*30mm                                                                                                               |
| Cell Dimensions        | 182*199mm                                                                                                                        |
| Cell Amount            | 66*2 pcs                                                                                                                         |
| Maximum System Voltage | 1500V                                                                                                                            |
| Junction Box           | IP68                                                                                                                             |
| Front glass            | 3.2mm, Anti-Reflection Coating, High Transmission, Low Iron, Tempered Glass                                                      |
| Frame                  | Aluminum Alloy                                                                                                                   |
| Cable                  | 4mm <sup>2</sup> , N 1400mm/P 1400mm for Horizontal installation<br>4mm <sup>2</sup> , N 300mm/P 300mm for Vertical installation |
| Connector              | MC4 compatible                                                                                                                   |

### ELECTRICAL PARAMETERS AT STC

|                       |        |        |        |        |        |
|-----------------------|--------|--------|--------|--------|--------|
| Power                 | 570W   | 575W   | 580W   | 585W   | 590W   |
| Open Circuit Voltage  | 47.82V | 48.02V | 48.22V | 48.42V | 48.62V |
| Short Circuit Current | 15.12A | 15.17A | 15.22A | 15.27A | 15.32A |
| Maximun Power Voltage | 39.91V | 40.11V | 40.31V | 40.51V | 40.72V |
| Maximum Power Current | 14.28A | 14.34A | 14.39A | 14.44A | 14.49A |
| Module Efficiency     | 22.06% | 22.25% | 22.44% | 22.64% | 22.83% |

\* Under Standard Test Conditions (STC) of irradiance of 1000 W/m2, spectrum AM 1.5 and cell temperature of 25°C.

### ELECTRICAL PARAMETERS AT NMOT

|                       |        |        |        |        |        |
|-----------------------|--------|--------|--------|--------|--------|
| Power                 | 429W   | 433W   | 437W   | 440W   | 444W   |
| Open Circuit Voltage  | 45.44V | 45.64V | 45.84V | 46.04V | 46.24V |
| Short Circuit Current | 12.13A | 12.19A | 12.23A | 12.25A | 12.28A |
| Maximun Power Voltage | 34.24V | 37.44V | 37.64V | 37.84V | 38.04V |
| Maximum Power Current | 11.52A | 11.57A | 11.61A | 11.63A | 11.67A |

\* Under Nominal Module Operating Temperature (NMOT), irradiance of 800 W/m2, spectrum AM 1.5, ambient temperature 20°C, wind speed 1 m/s.

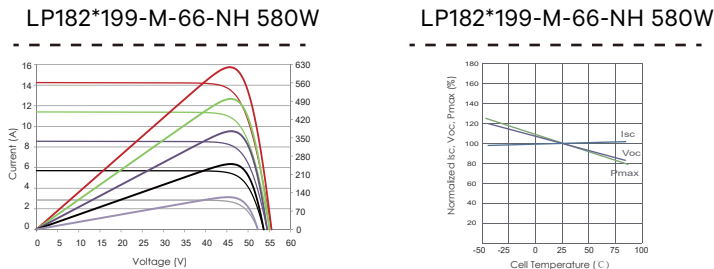
### TEMPERATURE CHARACTERISTICS

|                         |           |                          |            |
|-------------------------|-----------|--------------------------|------------|
| NMOT                    | 41±3°C    | Temp Coefficient of ISC  | +0.046%/°C |
| Temp Coefficient of VOC | -0.25%/°C | Temp Coefficient of Pmax | -0.30%/°C  |

### PACKING CONFIGURATION

|                     |                                         |                      |            |
|---------------------|-----------------------------------------|----------------------|------------|
| Modules/Pallet      | 36 Pieces                               | Modules/40'Container | 720 Pieces |
| Packing Description | 20 Pallets, Total=(36+36)x10=720 Pieces |                      |            |

### CHARACTERISTICS



### 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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