



**LEAPTON**  
SOLAR

Monofacial

Bifacial

**LP182\*199-M-72-NB**

Rated Power 620-640W

**N-Type TOPCon Dual Glass**



#### N-Type MBB Cell

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



#### Bifacial with dual glass

Module adopts 182\*199mm half cells, bifacial module provide an additional 5%~25% output.



#### 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.

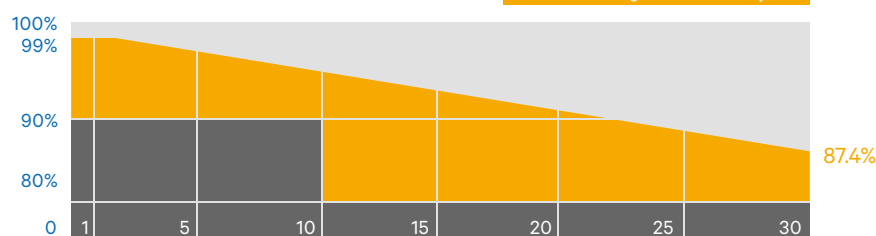


#### Load Capacity

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

Leapton N-Type Linear Power Warranty Industry Warranty

0.4% Annual Degradation over 30 years



Headquarter : Leapton Energy Co., Ltd.

〒Tosei Bldg. 6F, 1-2-1 Aioi-cho, Chuo-ku Kobe-shi, Hyogo, 650-0025, Japan

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

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

+81-78-382-3182

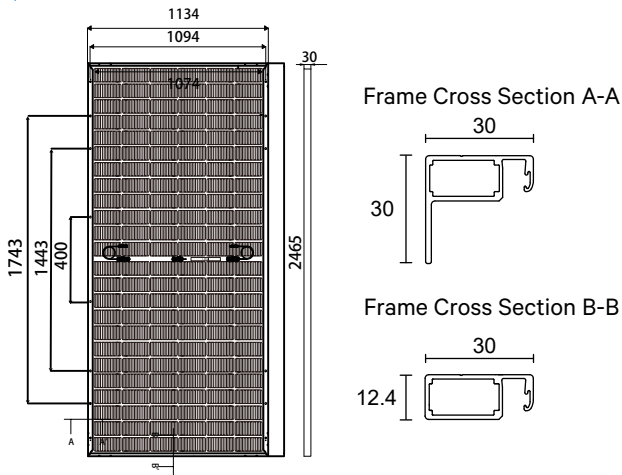
www.leaptonenergy.jp

+86-512-88800068

info@leaptonenergy.com

www.leaptonpv.com

## MECHANICAL DIAGRAMS



## SPECIFICATIONS

|                        |                                                                                                                                  |
|------------------------|----------------------------------------------------------------------------------------------------------------------------------|
| Weight                 | 33.3kg                                                                                                                           |
| Dimensions             | 2465mm*1134mm*30mm                                                                                                               |
| Cell Dimensions        | 182*199mm                                                                                                                        |
| Cell Amount            | 72*2 pcs                                                                                                                         |
| Maximum System Voltage | 1500V                                                                                                                            |
| Junction Box           | IP68                                                                                                                             |
| Front glass            | Aluminum Alloy                                                                                                                   |
| Back galss             | 2.0mm, Anti-Reflection Coating                                                                                                   |
| Frame                  | 2.0mm, Heat Strengthened Glass                                                                                                   |
| 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                                                                                                                   |
| Bifaciality            | 80±5%                                                                                                                            |

## ELECTRICAL PARAMETERS AT STC

|                       |        |        |        |        |        |
|-----------------------|--------|--------|--------|--------|--------|
| Power                 | 620W   | 625W   | 630W   | 635W   | 640W   |
| Open Circuit Voltage  | 52.09V | 52.29V | 52.49V | 52.69V | 52.89V |
| Short Circuit Current | 15.09A | 15.15A | 15.21A | 15.23A | 15.25A |
| Maximun Power Voltage | 43.48V | 43.68V | 43.88V | 44.07V | 44.29V |
| Maximum Power Current | 14.26A | 14.31A | 14.36A | 14.41A | 14.45A |
| Module Efficiency     | 22.18% | 22.36% | 22.54% | 22.72% | 22.90% |

\* 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                 | 467W   | 471W   | 474W   | 478W   | 482W   |
| Open Circuit Voltage  | 49.49V | 49.69V | 49.89V | 50.09V | 50.29V |
| Short Circuit Current | 12.13A | 12.18A | 12.21A | 12.23A | 12.27A |
| Maximun Power Voltage | 40.55V | 40.75V | 40.95V | 41.14V | 41.34V |
| Maximum Power Current | 11.52A | 11.56A | 11.58A | 11.62A | 11.66A |

\* 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 ( AT 10% BIFACIAL POWER OUTPUT )

|                       |        |        |        |        |        |
|-----------------------|--------|--------|--------|--------|--------|
| Output Power          | 682W   | 687W   | 693W   | 699W   | 704W   |
| Open Circuit Voltage  | 52.09V | 52.29V | 52.49V | 52.69V | 52.89V |
| Short Circuit Current | 16.64A | 16.69A | 16.77A | 16.84A | 16.88A |
| Maximun Power Voltage | 43.49V | 43.68V | 43.88V | 44.08V | 44.28V |
| Maximum Power Current | 15.68A | 15.73A | 15.79A | 15.86A | 15.90A |

## TEMPERATURE CHARACTERISTICS

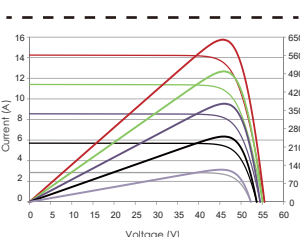
|                         |           |                          |            |
|-------------------------|-----------|--------------------------|------------|
| NMOT                    | 41±3°C    | Temp Coefficient of ISC  | +0.046%/°C |
| Temp Coefficient of VOC | -0.25%/°C | Temp Coefficient of Pmax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

## PACKING CONFIGURATION

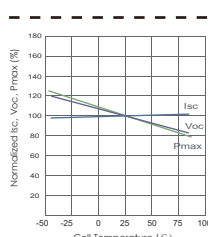
|                     |                                         |                      |            |
|---------------------|-----------------------------------------|----------------------|------------|
| Modules/Pallet      | 37 Pieces                               | Modules/40'Container | 664 Pieces |
| Packing Description | 18 Pallets, Total=37*16+36*2=664 Pieces |                      |            |

## CHARACTERISTICS

LP182\*199-M-72-NB-625W



LP182\*199-M-72-NB-625W



## MAXIMUM RATING

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



Headquarter : Leapton Energy Co., Ltd.

📍 Tosei Bldg. 6F, 1-2-1 Aioi-cho, Chuo-ku Kobe-shi, Hyogo, 650-0025, Japan

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

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

☎ +81-78-382-3182

🌐 [www.leaptonenergy.jp](http://www.leaptonenergy.jp)

☎ +86-512-88800068

✉ [info@leaptonenergy.com](mailto:info@leaptonenergy.com)

🌐 [www.leaptonpv.com](http://www.leaptonpv.com)