



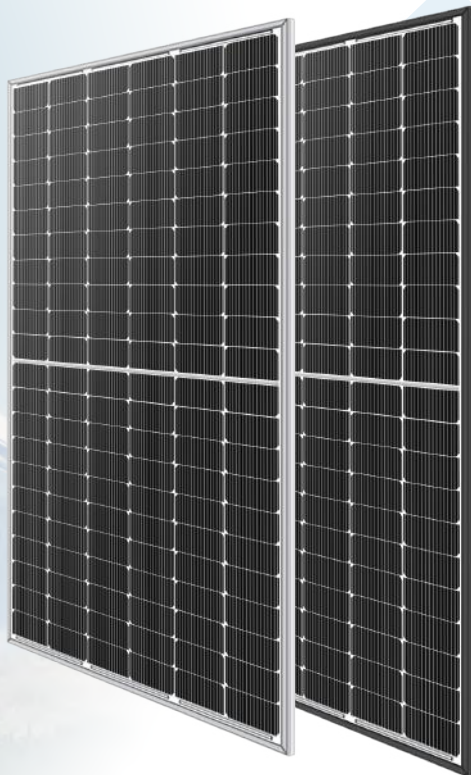
**LEAPTON**  
SOLAR

Monofacial

Bifacial

# LP182\*210-M-66-NB N-Type TOPCon Dual Glass

Rated Power 610-630W



## N-Type 182\*210mm Cell

Adopting the 182\*210mm N-Type TOPCon solar cells with the highest efficiency.



## Low Light Features

Higher performance under low light environment.



## Bifacial with dual glass

Module adopts 182\*210mm 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.

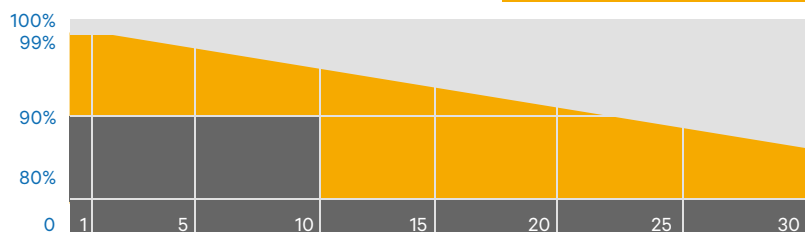


## Load Capacity

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

Leapton N-Type Linear Power Warranty Industry Warranty

0.4% Annual Degradation over 30 years



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

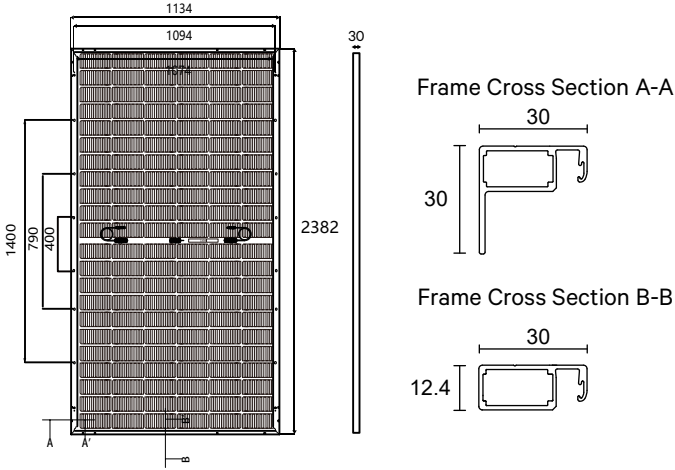
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### MECHANICAL DIAGRAMS



### SPECIFICATIONS

|                        |                                                                                                                                  |
|------------------------|----------------------------------------------------------------------------------------------------------------------------------|
| Weight                 | 33.5kg                                                                                                                           |
| Dimensions             | 2382mm*1134mm*30mm                                                                                                               |
| Cell Dimensions        | 182*210mm                                                                                                                        |
| Cell Amount            | 66*2 pcs                                                                                                                         |
| Maximum System Voltage | 1500V                                                                                                                            |
| Junction Box           | IP68                                                                                                                             |
| Front glass            | 2.0mm, Anti-Reflection Coating                                                                                                   |
| Back galss             | 2.0mm, Heat Strengthened 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                                                                                                                   |
| Bifaciality            | 80±5%                                                                                                                            |

### ELECTRICAL PARAMETERS AT STC

|                       |        |        |        |        |        |
|-----------------------|--------|--------|--------|--------|--------|
| Power                 | 610W   | 615W   | 620W   | 625W   | 630W   |
| Open Circuit Voltage  | 49.05V | 49.35V | 49.55V | 49.75V | 49.95V |
| Short Circuit Current | 15.84A | 15.88A | 15.93A | 16.00A | 16.05A |
| Maximun Power Voltage | 40.66V | 40.86V | 41.06V | 41.26V | 41.46V |
| Maximum Power Current | 15.00A | 15.05A | 15.10A | 15.15A | 15.20A |
| Module Efficiency     | 22.58% | 22.77% | 22.95% | 23.14% | 23.32% |

\* 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                 | 465W   | 469W   | 472W   | 476W   | 480W   |
| Open Circuit Voltage  | 46.51V | 46.81V | 47.01V | 47.21V | 47.41V |
| Short Circuit Current | 12.78A | 12.81A | 12.84A | 12.88A | 12.93A |
| Maximun Power Voltage | 38.20V | 38.40V | 38.60V | 38.80V | 39.00V |
| Maximum Power Current | 12.17A | 12.21A | 12.23A | 12.27A | 12.31A |

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

### ELECTRICAL PARAMETERS ( AT 10% BIFACIAL POWER OUTPUT )

|                       |        |        |        |        |        |
|-----------------------|--------|--------|--------|--------|--------|
| Output Power          | 671W   | 677W   | 682W   | 688W   | 693W   |
| Open Circuit Voltage  | 49.05V | 49.35V | 49.55V | 49.75V | 49.95V |
| Short Circuit Current | 17.43A | 17.47A | 17.52A | 17.57A | 17.62A |
| Maximun Power Voltage | 40.66V | 40.86V | 41.06V | 41.26V | 41.46V |
| Maximum Power Current | 16.50A | 16.57A | 16.61A | 16.67A | 16.71A |

### TEMPERATURE CHARACTERISTICS

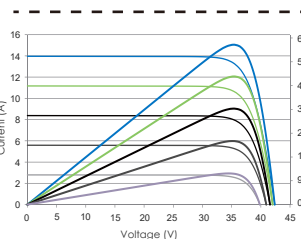
|                         |           |                          |            |
|-------------------------|-----------|--------------------------|------------|
| NMOT                    | 41±3°C    | Temp Coefficient of ISC  | +0.046%/°C |
| Temp Coefficient of VOC | -0.25%/°C | Temp Coefficient of Pmax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

### PACKING CONFIGURATION

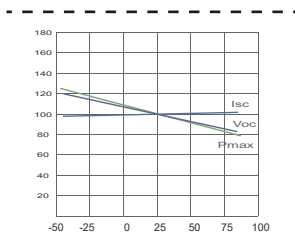
|                     |                                         |                      |            |
|---------------------|-----------------------------------------|----------------------|------------|
| Modules/Pallet      | 36 Pieces                               | Modules/40'Container | 720 Pieces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

### CHARACTERISTICS

LP182\*210-M-66-NB-610W



LP182\*210-M-66-NB-610W



### 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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