



Monofacial

Bifacial

LP182*182-M-60-NB

N-Type Double Glass

Rated Power 480-500W



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.



Bifacial with double-glass
Module adopts 182*182mm half cells, bifacial module provide an additional 5%~25% output.



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

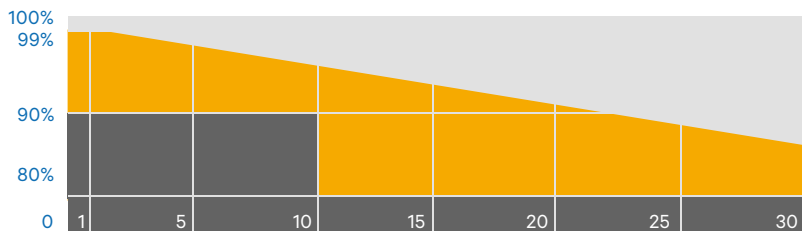


Harsh Environmental Adaptability
Strict salt spray and ammonia corrosion test by TUV Nord.



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



Headquarter : Leapton Energy Co., Ltd.

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

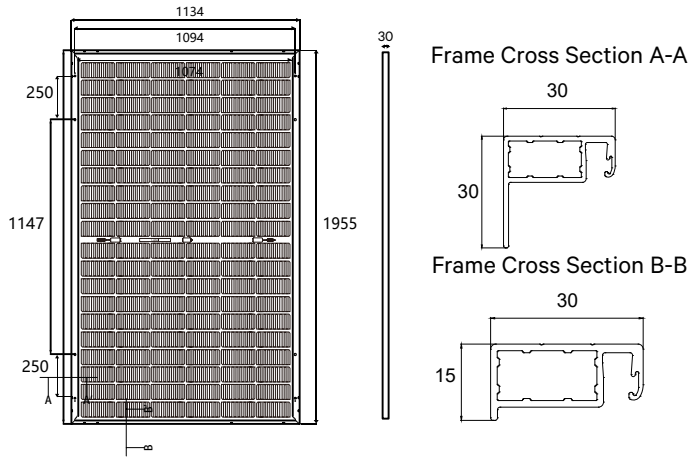
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🌐 www.leaptonenergy.jp

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

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

MECHANICAL DIAGRAMS



SPECIFICATIONS

| | |
|------------------------|---|
| Weight | 27kg |
| Dimensions | 1955mm*1134mm*30mm |
| Cell Dimensions | 182*182mm |
| Cell Amount | 60*2 pcs |
| Maximum System Voltage | 1500V |
| Junction Box | IP68 |
| Frame | Aluminum Alloy |
| Cable | 4mm ² , N 1200mm/P 1200mm or customized length |
| Connector | MC4 compatible |
| Application Level | Class A |
| Bifaciality | 80±5% |

ELECTRICAL PARAMETERS AT STC

| | | | | | |
|-----------------------|--------|--------|--------|--------|--------|
| Power | 480W | 485W | 490W | 495W | 500W |
| Open Circuit Voltage | 43.37V | 43.52V | 43.67V | 43.82V | 43.97V |
| Short Circuit Current | 13.86A | 13.92A | 14.00A | 14.09A | 14.18A |
| Maximum Power Voltage | 35.90V | 36.04V | 36.19V | 36.35V | 36.50V |
| Maximum Power Current | 13.37A | 13.46A | 13.54A | 13.62A | 13.70A |
| Module Efficiency | 21.65% | 21.88% | 22.10% | 22.33% | 22.55% |

* 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 | 361W | 365W | 369W | 373W | 376W |
| Open Circuit Voltage | 41.23V | 41.38V | 41.53V | 41.68V | 41.83V |
| Short Circuit Current | 11.15A | 11.22A | 11.26A | 11.32A | 11.36A |
| Maximum Power Voltage | 33.46V | 33.61V | 33.76V | 33.91V | 34.06V |
| Maximum Power Current | 10.79A | 10.86A | 10.93A | 11.00A | 11.04A |

* 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 | 528W | 534W | 539W | 545W | 550W |
| Open Circuit Voltage | 43.37V | 43.52V | 43.67V | 43.82V | 43.97V |
| Short Circuit Current | 15.35A | 15.43A | 15.50A | 15.61A | 15.69A |
| Maximum Power Voltage | 35.90V | 36.04V | 36.20V | 36.34V | 36.50V |
| Maximum Power Current | 14.71A | 14.82A | 14.89A | 15.00A | 15.07A |

TEMPERATURE CHARACTERISTICS

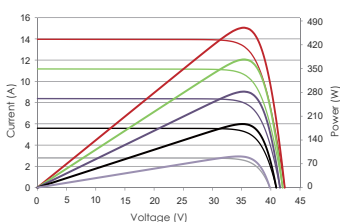
| | | | |
|-------------------------|-----------|--------------------------|------------|
| NMOT | 41±3°C | Temp Coefficient of ISC | +0.046%/°C |
| Temp Coefficient of VOC | -0.25%/°C | Temp Coefficient of Pmax | -0.30%/°C |

PACKING CONFIGURATION

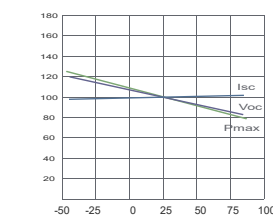
| | | | |
|---------------------|---|----------------------|------------|
| Modules/Pallet | 36 Pieces | Modules/40'Container | 864 Pieces |
| Packing Description | 24 Pallets, Total=(36+36)x12=864 Pieces | | |

CHARACTERISTICS

LP182*182-M-60-NB-500W



LP182*182-M-60-NB-500W



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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