



LEAPTON
SOLAR

Monofacial

Bifacial

LP182*182-M-72-NH N-Type

Rated Power 565-585W



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



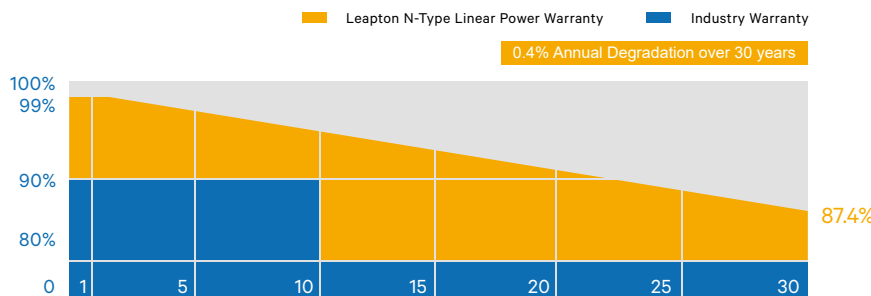
Low Light Features
Higher performance under low light environment.



Higher Output Power
Module adopts 144 pcs of 182*182mm half cells, the maximum power can reach 585W.



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



Headquarter : Leapton Energy Co., Ltd.

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

+81-78-382-3182

www.leaptonenergy.jp

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

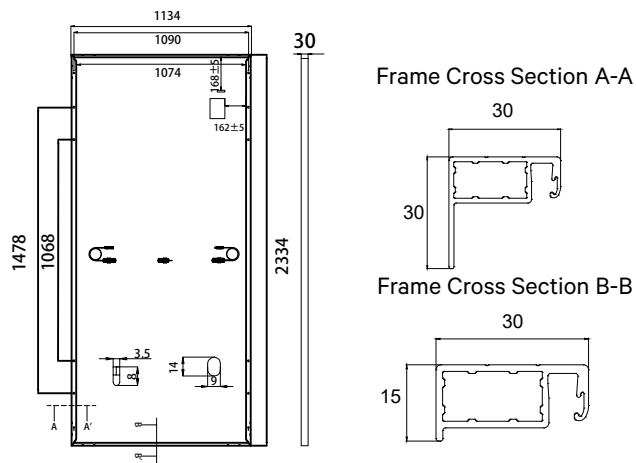
No.9, Sunshine Avenue, Changshu City, Jiangsu, China

+86-512-88800068

info@leaptonenergy.com

www.leaptonpv.com

MECHANICAL DIAGRAMS



SPECIFICATIONS

| | |
|------------------------|---|
| Weight | 27kg |
| Dimensions | 2334mm*1134mm*30mm |
| Cell Dimensions | 182*182mm |
| Cell Amount | 72*2 pcs |
| Maximum System Voltage | 1500V |
| Junction Box | IP68 |
| Frame | Aluminum Alloy |
| Cable | 4mm ² , N 300mm/P 300mm or customized length |
| Connector | MC4 compatible |
| Application Level | Class A |

ELECTRICAL PARAMETERS AT STC

| | | | | | |
|-----------------------|--------|--------|--------|--------|--------|
| Power | 565W | 570W | 575W | 580W | 585W |
| Open Circuit Voltage | 51.68V | 51.83V | 51.98V | 52.13V | 52.28V |
| Short Circuit Current | 13.73A | 13.80A | 13.86A | 13.92A | 13.98A |
| Maximum Power Voltage | 42.71V | 42.83V | 42.98V | 43.16V | 43.30V |
| Maximum Power Current | 13.23A | 13.31A | 13.38A | 13.44A | 13.51A |
| Module Efficiency | 21.35% | 21.54% | 21.72% | 21.91% | 22.10% |

* 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 | 425W | 429W | 433W | 437W | 440W |
| Open Circuit Voltage | 49.00V | 49.15V | 49.30V | 49.45V | 49.60V |
| Short Circuit Current | 11.10A | 11.14A | 11.17A | 11.22A | 11.24A |
| Maximum Power Voltage | 39.68V | 39.83V | 39.98V | 40.13V | 40.26V |
| Maximum Power Current | 10.71A | 10.77A | 10.83A | 10.89A | 10.93A |

* 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

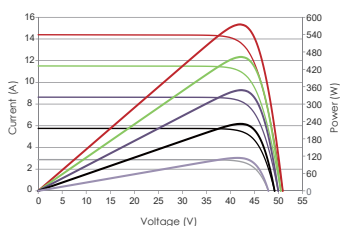
| | | | |
|-------------------------|-----------|--------------------------|------------|
| NMOT | 41±3°C | Temp Coefficient of ISC | +0.046%/°C |
| Temp Coefficient of VOC | -0.25%/°C | Temp Coefficient of Pmax | -0.30%/°C |

PACKING CONFIGURATION

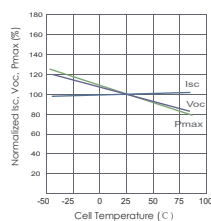
| | | | |
|---------------------|---|----------------------|------------|
| Modules/Pallet | 36 Pieces | Modules/40'Container | 720 Pieces |
| Packing Description | 20 Pallets, Total=(36+36)x10=720 Pieces | | |

CHARACTERISTICS

LP182*182-M-72-NH-580W



LP182*182-M-72-NH-580W



MAXIMUM RATING

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

25 YEARS Quality Warranty

30 YEARS Power Warranty

Headquarter : Lepton Energy Co., Ltd.

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

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

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

☎ +86-512-88800068

✉ info@leptonenergy.com

🌐 www.leptonpv.com

☎ +81-78-382-3182

🌐 www.leptonenergy.jp