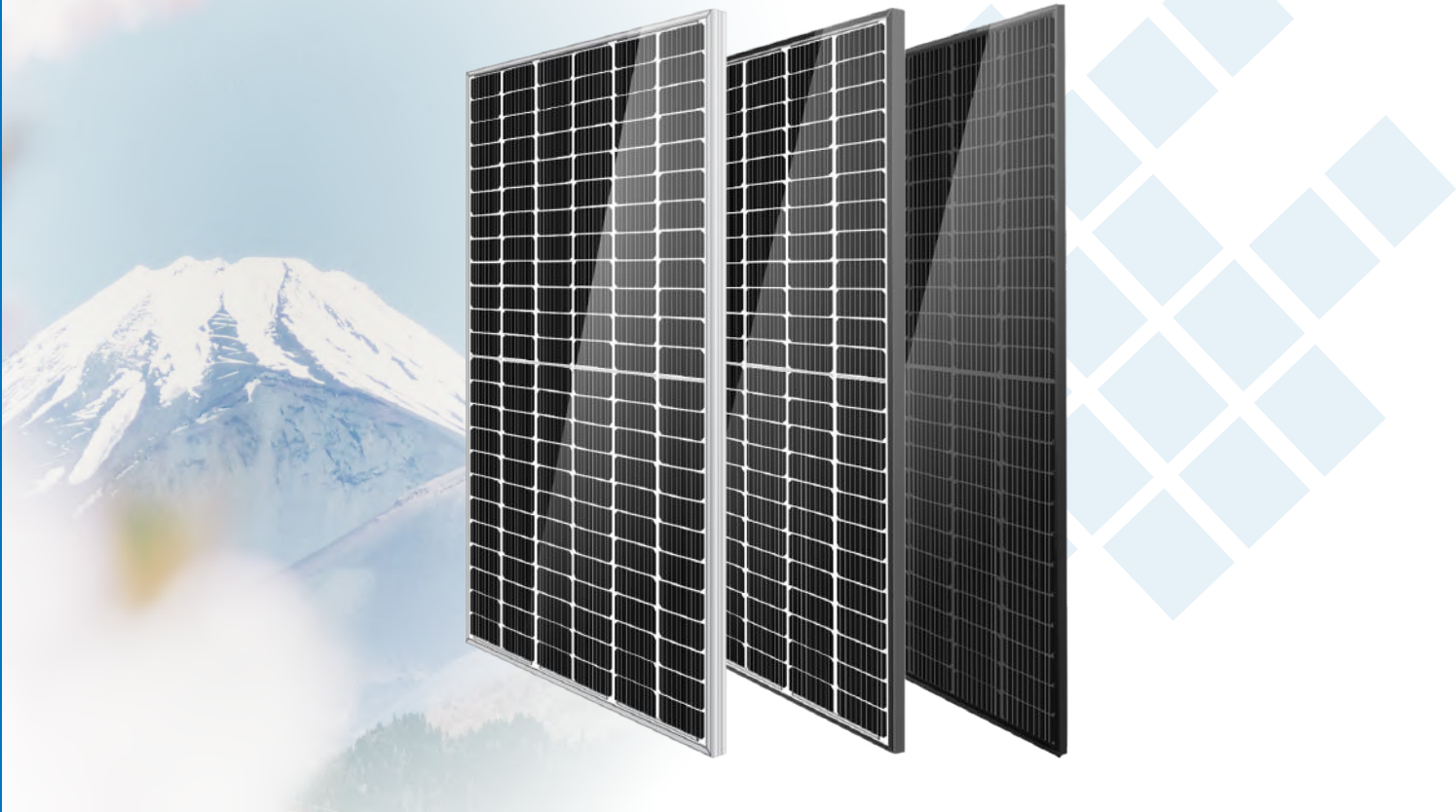


LP166*166-M-72-MH

Rated Power 420-455W



9BB Cell
More uniform current collection capability, reducing the current heat loss of the internal cells.



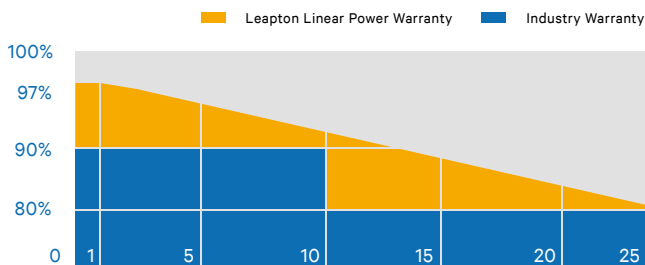
Low Light Features
Higher performance under low light environment.



Higher Output Power
The output power of 144 half-cells Monocrystalline modules is up to 455W.



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



• IEC61215
• IEC61730

Headquarter : Leapton Energy Co., Ltd.

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🌐 www.leaptonenergy.jp

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

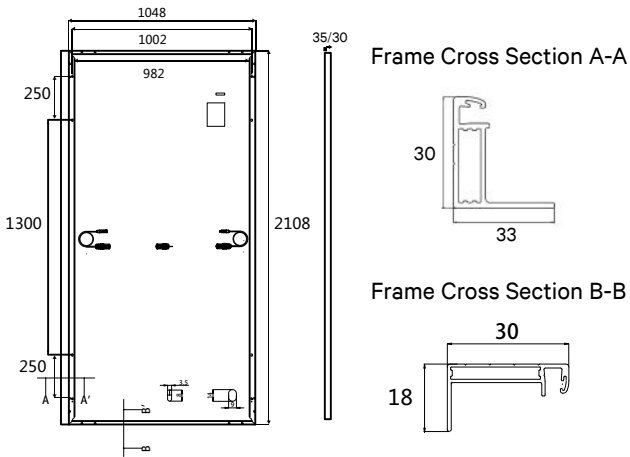
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🌐 www.leaptonpv.com

MECHANICAL DIAGRAMS



SPECIFICATIONS

| | |
|-------------------------|--|
| Weight | 24kg |
| Dimensions | 2108mm*1048mm*35/30mm |
| Cell Amount | 72*2 pcs |
| Maximum System Voltage | 1500V |
| Junction Box | IP68 |
| Frame | Aluminum Alloy |
| Cable | 4mm ² , Landscape: N 1300mm/P 1300mm Portrait: N 150mm/P 300mm |
| Connector | PV-GZX 1500 |
| Application Level | Class A |
| Country of Manufacturer | China |
| Fire Safety Class | Class C according to ANSI/UL 1703-2018 |

ELECTRICAL PARAMETERS AT STC

| Module Name | LP166*166-M-72-MH-420W | LP166*166-M-72-MH-425W | LP166*166-M-72-MH-430W | LP166*166-M-72-MH-435W | LP166*166-M-72-MH-440W | LP166*166-M-72-MH-445W | LP166*166-M-72-MH-450W | LP166*166-M-72-MH-455W |
|-----------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|
| Power | 420W | 425W | 430W | 435W | 440W | 445W | 450W | 455W |
| Open Circuit Voltage | 48.80V±5% | 49.00V±5% | 49.20V±5% | 49.40V±5% | 49.60V±5% | 49.80V±5% | 50.00V±5% | 50.20V±5% |
| Short Circuit Current | 11.04A±5% | 11.11A±5% | 11.19A±5% | 11.26A±5% | 11.33A±5% | 11.40A±5% | 11.47A±5% | 11.54A±5% |
| Maximun Power Voltage | 40.20V | 40.40V | 40.60V | 40.80V | 41.0V | 41.20V | 41.40V | 41.60V |
| Maximum Power Current | 10.45A | 10.52A | 10.60A | 10.67A | 10.74A | 10.81A | 10.88A | 10.95A |
| Module Efficiency | 19.0% | 19.2% | 19.5% | 19.7% | 19.9% | 20.1% | 20.4% | 20.6% |

* 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 | 315W | 318W | 322W | 326W | 330W | 334W | 338W | 342W |
|-----------------------|--------|--------|--------|--------|--------|--------|--------|--------|
| Open Circuit Voltage | 45.70V | 45.90V | 46.10V | 46.30V | 46.50V | 46.70V | 46.90V | 47.10V |
| Short Circuit Current | 8.95A | 9.02A | 9.08A | 9.13A | 9.19A | 9.25A | 9.31A | 9.36A |
| Maximun Power Voltage | 37.30V | 37.50V | 37.70V | 37.90V | 38.10V | 38.20V | 38.30V | 38.40V |
| Maximum Power Current | 8.44A | 8.50A | 8.56A | 8.61A | 8.66A | 8.75A | 8.84A | 8.91A |
| Module Efficiency | 14.3% | 14.4% | 14.6% | 14.7% | 14.9% | 15.1% | 15.3% | 15.5% |

* 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

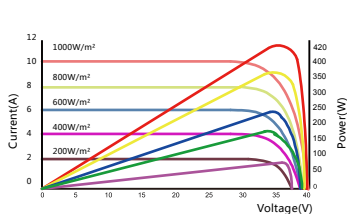
| | | | |
|-------------------------|-----------|--------------------------|-----------|
| NMOT | 41±3°C | Temp Coefficient of ISC | +0.05%/°C |
| Temp Coefficient of VOC | -0.28%/°C | Temp Coefficient of Pmax | -0.36%/°C |

PACKING CONFIGURATION

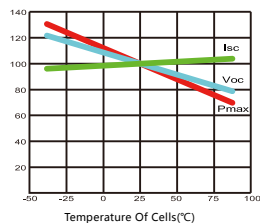
| | | | |
|---------------------|---|----------------------|-------------------------|
| Modules/Pallet | 31 Pieces / 36 Pieces | Modules/40'Container | 737 Pieces / 847 Pieces |
| Packing Description | 22 Pallets, Total=(31+31+5)x11=737 Pieces / Total=(36+36+5)x11=847 Pieces | | |

CHARACTERISTICS

LP166*166-M-72-MH-420W



LP166*166-M-72-MH-420W



MAXIMUM RATING

| | |
|-----------------------|---------------|
| Output Tolerance | ±3% |
| Operating Temperature | -40°C~+85°C |
| Wind Load/Snow Load | 2400pa/5400pa |
| Fuse Current | 20A |

