



LEAPTON
SOLAR

Monofacial

Bifacial

LP182*182-M-78-NB

Rated Power 610-625W

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*182mm 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.

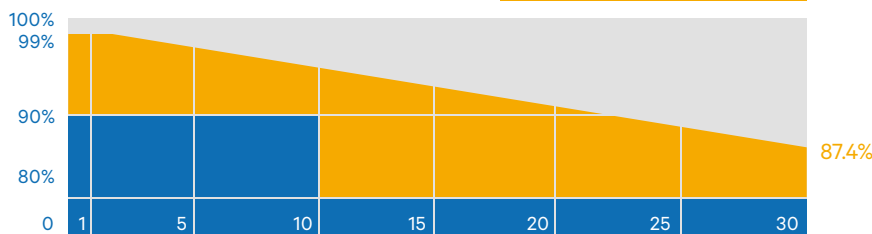


Load Capacity

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



IEC 61215-2: 2016
IEC 61730-2: 2016



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.

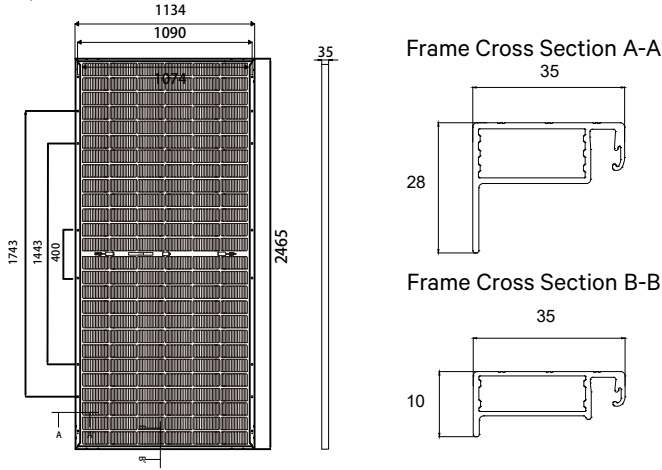
📍 No.9, Sunshine Avenue, Changshu City, Jiangsu, China

☎ +86-512-88800068

✉ info@leaptonenergy.com

🌐 www.leaptonpv.com

MECHANICAL DIAGRAMS



SPECIFICATIONS

Weight	34.8kg
Dimensions	2465mm*1134mm*35mm
Cell Dimensions	182*182mm
Cell Amount	78*2 pcs
Maximum System Voltage	1500V
Junction Box	IP68
Frame	Aluminum Alloy
Cable	4mm ² , N 1500mm/P 1500mm or customized length
Connector	MC4 compatible
Application Level	Class A
Bifaciality	80±5%

ELECTRICAL PARAMETERS AT STC

Power	610W	615W	620W	625W
Open Circuit Voltage	55.33V	55.48V	55.63V	55.78V
Short Circuit Current	14.09A	14.16A	14.23A	14.30A
Maximum Power Voltage	45.66V	45.76V	45.86V	45.96V
Maximum Power Current	13.36A	13.44A	13.52A	13.60A
Module Efficiency	21.82%	22.00%	22.18%	22.36%

* 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	459W	463W	467W	470W
Open Circuit Voltage	52.56V	52.70V	52.84V	52.98V
Short Circuit Current	11.37A	11.43A	11.48A	11.54A
Maximum Power Voltage	42.38V	42.49V	42.61V	42.72V
Maximum Power Current	10.83A	10.89A	10.95A	11.01A
Module Efficiency	16.42%	16.56%	16.71%	16.81%

* 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
Open Circuit Voltage	55.34V	55.49V	55.64V	55.79V
Short Circuit Current	15.44A	15.52A	15.61A	15.69A
Maximum Power Voltage	45.68V	45.78V	45.88V	45.98V
Maximum Power Current	14.69A	14.78A	14.86A	14.95A

TEMPERATURE CHARACTERISTICS

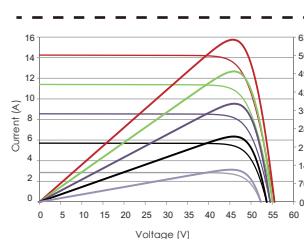
NMOT	41±3°C	Temp Coefficient of ISC	+0.046%/°C
Temp Coefficient of VOC	-0.25%/°C	Temp Coefficient of Pmax	-0.30%/°C

PACKING CONFIGURATION

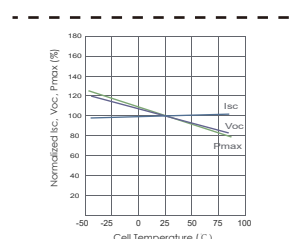
Modules/Pallet	31 Pieces	Modules/40'Container	558 Pieces
Packing Description	17 Pallets, Total=(31+31)x9=558 Pieces		

CHARACTERISTICS

LP182*182-M-78-NB-620W



LP182*182-M-78-NB-620W



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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