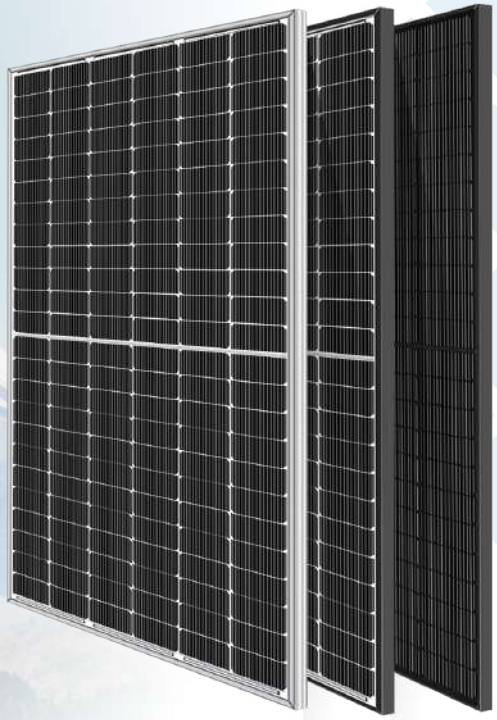
2026 V2

LEAPTON SOLAR

Monofacial | Bifacial

LP182*182-M-72-NB N-Type TOPCon Dual Glass

Rated Power 580-600W



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

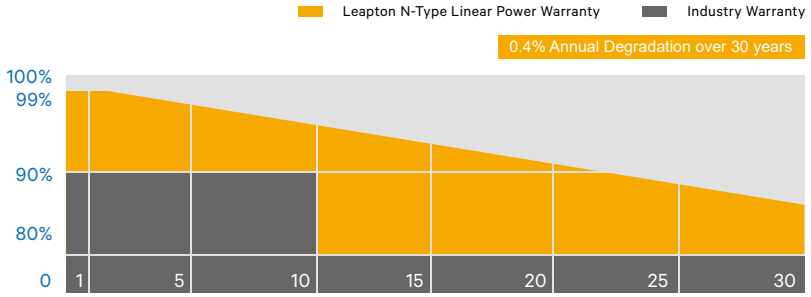
Low Light Features
Higher performance under low light environment.

Bifacial with dual 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.



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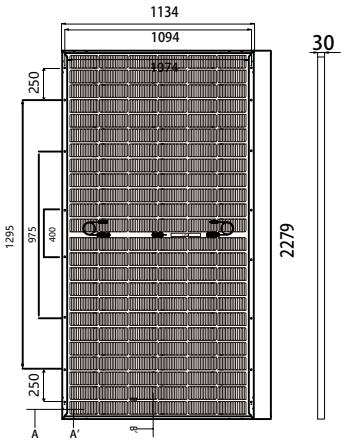
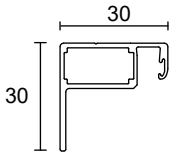
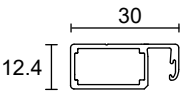
MECHANICAL DIAGRAMS



Frame Cross Section A-A



Frame Cross Section B-B



SPECIFICATIONS

Weight	29.7kg
Dimensions	2279mm*1134mm*30mm
Cell Dimensions	182*182mm
Cell Amount	72*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	4mm², N 1400mm/P 1400mm for Horizontal installation 4mm², N 300mm/P 300mm for Vertical installation
Connector	MC4 compatible
Bifaciality	80±5%

ELECTRICAL PARAMETERS AT STC

Power	580W	585W	590W	595W	600W
Open Circuit Voltage	51.57V	51.72V	51.87V	52.02V	52.17V
Short Circuit Current	14.18A	14.24A	14.30A	14.38A	14.43A
Maximun Power Voltage	42.49V	42.64V	42.79V	42.93V	43.08V
Maximum Power Current	13.65A	13.72A	13.79A	13.86A	13.93A
Module Efficiency	22.44%	22.64%	22.83%	23.02%	23.22%

* 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	437W	440W	444W	448W	452W
Open Circuit Voltage	48.99V	49.14V	49.29V	49.44V	49.59V
Short Circuit Current	11.40A	11.42A	11.46A	11.52A	11.57A
Maximun Power Voltage	39.66V	39.82V	39.97V	40.11V	40.25V
Maximum Power Current	11.02A	11.05A	11.11A	11.17A	11.23A

* 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	638W	644W	649W	655W	660W
Open Circuit Voltage	51.57V	51.72V	51.87V	52.02V	52.17V
Short Circuit Current	15.69A	15.77A	15.83A	15.91A	15.97A
Maximun Power Voltage	42.48V	42.62V	42.78V	42.92V	43.08V
Maximum Power Current	15.02A	15.11A	15.17A	15.26A	15.32A

TEMPERATURE CHARACTERISTICS

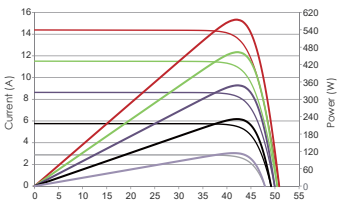
NMOT	41±3°C	Temp Coefficient of ISC	+0.046%/°C
Temp Coefficient of VOC	-0.25%/°C	Temp Coefficient of Pmax	-0.30%/°C

PACKING CONFIGURATION

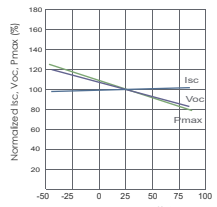
Modules/Pallet	37 Pieces	Modules/40'Container	740 Pieces
Packing Description	20 Pallets, Total=(37+37)x10=740 Pieces		

CHARACTERISTICS

LP182*182-M-72-NB-585W



LP182*182-M-72-NB-585W



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

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