2023 V1

LEAPTON SOLAR

Monofacial | Bifacial

LP182*182-M-72-NB

N-Type Double Glass

Rated Power 565-585W

TIER 1 Bloomberg NEW ENERGY FINANCE

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

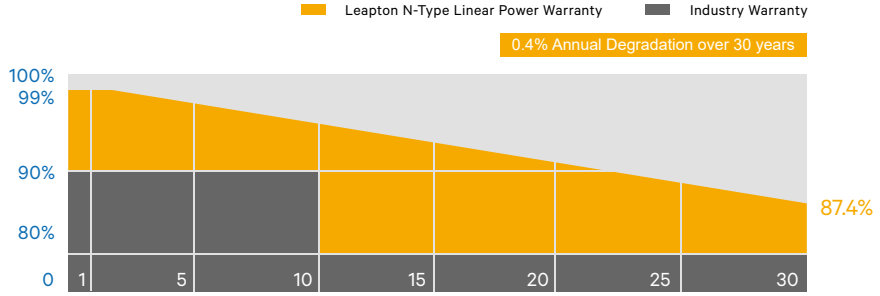
Low Light Features
Higher performance under low light environment.

Bifacial with double-glass
Module adopts 182*188mm 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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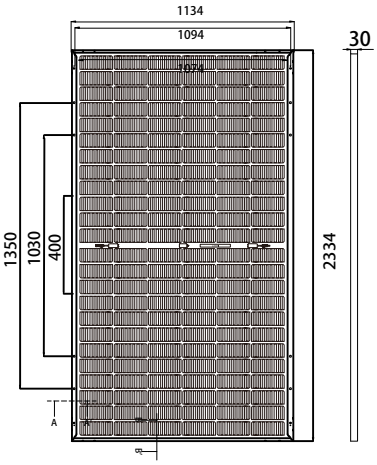
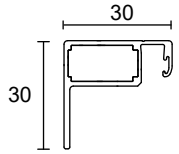
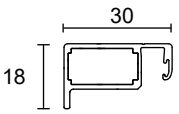
MECHANICAL DIAGRAMS



Frame Cross Section A-A



Frame Cross Section B-B



SPECIFICATIONS

Weight	32.5kg
Dimensions	2334mm*1134mm*30mm
Cell Dimensions	182*188mm
Cell Amount	72*2 pcs
Maximum System Voltage	1500V
Junction Box	IP68
Front glass	2.0mm, Anti-Reflection Coating
Back gals	2.0mm, Heat Strengthened Glass
Frame	Aluminum Alloy
Cable	4mm², N 1500mm/P 1500mm for Horizontal installation 4mm², N 300mm/P 300mm for Vertical installation
Connector	MC4 compatible
Bifaciality	80±5%

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
Maximun 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
Maximun 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.

ELECTRICAL PARAMETERS (AT 10% BIFACIAL POWER OUTPUT)

Output Power	622W	627W	633W	638W	644W
Open Circuit Voltage	51.68V	51.83V	51.98V	52.13V	52.28V
Short Circuit Current	15.22A	15.27A	15.35A	15.41A	15.49A
Maximun Power Voltage	42.69V	42.83V	43.01V	43.14V	43.28V
Maximum Power Current	14.57A	14.64A	14.72A	14.79A	14.88A

TEMPERATURE CHARACTERISTICS

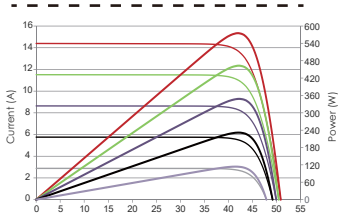
NMOT	41±3°C	Temp Coefficient of ISC	+0.046%/°C
Temp Coefficient of VOC	-0.25%/°C	Temp Coefficient of Pmax	-0.30%/°C

PACKING CONFIGURATION

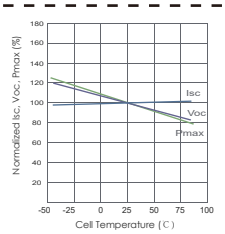
Modules/Pallet	36 Pieces	Modules/40'Container	720 Pieces
Packing Description	20 Pallets, Total=(36+36)x10=720 Pieces		

CHARACTERISTICS

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



LP182*182-M-72-NB-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

Leapton Energy Co., Ltd.