2026 V2

LEAPTON SOLAR

Monofacial | **Bifacial**

LP182*199-M-72-NB

N-Type TOPCon Dual Glass

Rated Power 630-650W



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

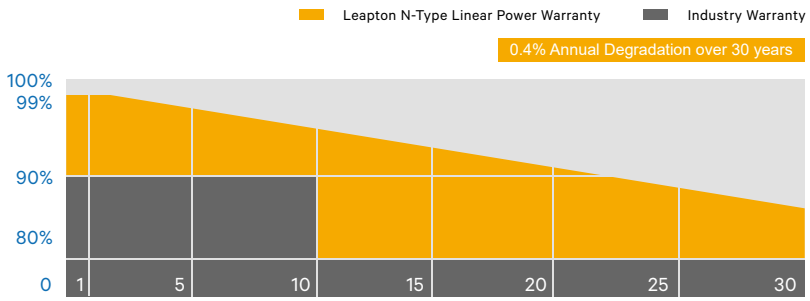
Low Light Features
Higher performance under low light environment.

Bifacial with dual glass
Module adopts 182*199mm 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.



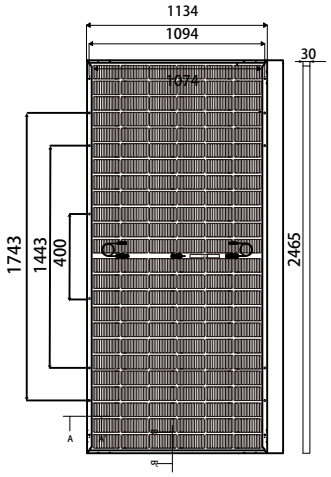
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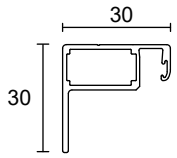
Leapton Energy Co., Ltd.

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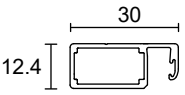
MECHANICAL DIAGRAMS



Frame Cross Section A-A



Frame Cross Section B-B



SPECIFICATIONS

Weight	33.3kg
Dimensions	2465mm*1134mm*30mm
Cell Dimensions	182*199mm
Cell Amount	72*2 pcs
Maximum System Voltage	1500V
Junction Box	IP68
Front glass	Aluminum Alloy
Back galss	2.0mm, Anti-Reflection Coating
Frame	2.0mm, Heat Strengthened Glass
Cable	$4mm^2$, N 1400mm/P 1400mm for Horizontal installation $4mm^2$, N 300mm/P 300mm for Vertical installation
Connector	MC4 compatible
Bifaciality	80±5%

ELECTRICAL PARAMETERS AT STC

Power	630W	635W	640W	645W	650W
Open Circuit Voltage	52.49V	52.69V	52.89V	53.09V	53.29V
Short Circuit Current	15.21A	15.23A	15.25A	15.30A	15.35A
Maximun Power Voltage	43.88V	44.07V	44.29V	44.48V	44.68V
Maximum Power Current	14.36A	14.41A	14.45A	14.50A	14.55A
Module Efficiency	22.54%	22.72%	22.90%	23.07%	23.25%

* 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	474W	478W	482W	486W	489W
Open Circuit Voltage	49.89V	50.09V	50.29V	50.49V	50.69V
Short Circuit Current	12.21A	12.23A	12.27A	12.32A	12.33A
Maximun Power Voltage	40.95V	41.14V	41.34V	41.54V	41.76V
Maximum Power Current	11.58A	11.62A	11.66A	11.70A	11.71A

* 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	693W	699W	704W	710W	715W
Open Circuit Voltage	52.49V	52.69V	52.89V	53.09V	53.29V
Short Circuit Current	16.77A	16.84A	16.88A	16.95A	16.99A
Maximun Power Voltage	43.88V	44.08V	44.28V	44.49V	44.69V
Maximum Power Current	15.79A	15.86A	15.90A	15.96A	16.00A

TEMPERATURE CHARACTERISTICS

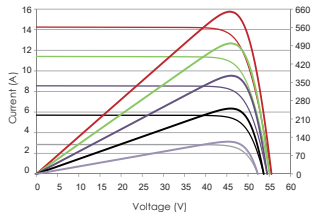
NMOT	41±3°C	Temp Coefficient of ISC	+0.046%/°C
Temp Coefficient of VOC	-0.25%/°C	Temp Coefficient of Pmax	-0.30%/°C

PACKING CONFIGURATION

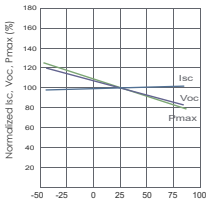
Modules/Pallet	37 Pieces	Modules/40'Container	664 Pieces
Packing Description	18 Pallets, Total=37*16+36*2=664 Pieces		

CHARACTERISTICS

LP182*199-M-72-NB-640W



LP182*199-M-72-NB-640W



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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