2024 V1

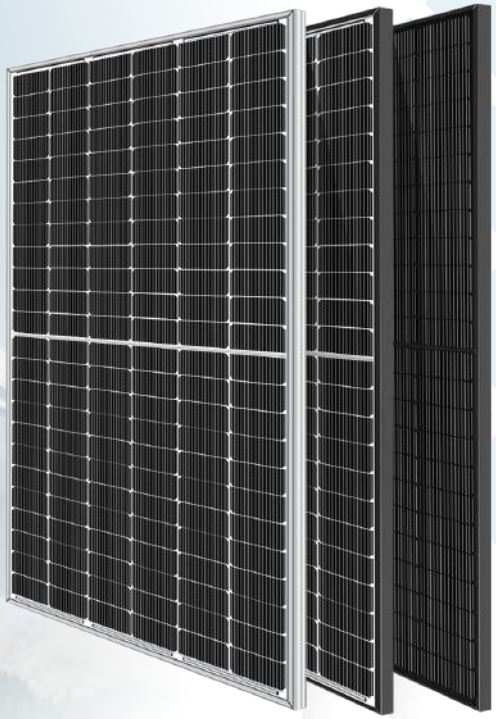
LEAPTON SOLAR

Monofacial | Bifacial

LP182*182-M-72-NB

N-Type TOPCon Dual 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

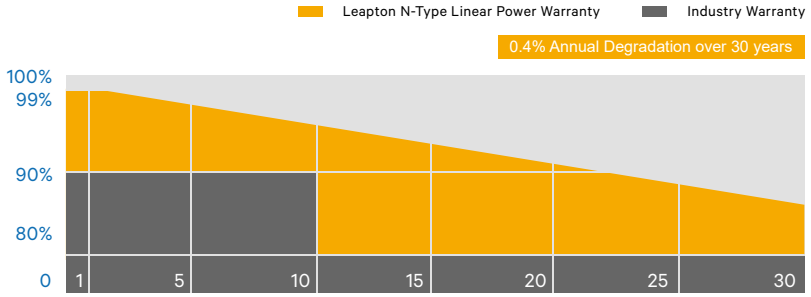
Low Light Features
Higher performance under low light environment.

Bifacial with 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.



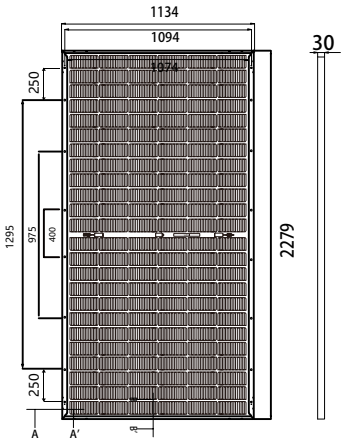
Headquarter : Leapton Energy Co., Ltd.
Tosei Bldg. 6F, 1-2-1 Aioi-cho, Chuo-ku Kobe-shi, Hyogo, 650-0025, Japan
+81-78-382-3182
www.leaptonenergy.jp

Manufacturer : Leapton Solar (Changshu) Co., Ltd.
No.9, Sunshine Avenue, Changshu City, Jiangsu, China
+86-512-88800068
info@leaptonenergy.com
www.leaptonpv.com

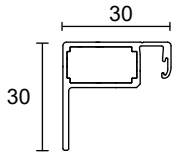
Leapton Energy Co., Ltd.

2024 V1

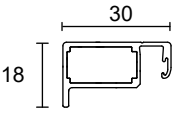
MECHANICAL DIAGRAMS



Frame Cross Section A-A



Frame Cross Section B-B



SPECIFICATIONS

Weight	32kg
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	$4mm^2$, 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	565W	570W	575W	580W	585W
Open Circuit Voltage	51.12V	51.27V	51.42V	51.57V	51.72V
Short Circuit Current	13.99A	14.05A	14.11A	14.18A	14.24A
Maximun Power Voltage	42.04V	42.19V	42.34V	42.49V	42.64V
Maximum Power Current	13.44A	13.51A	13.58A	13.65A	13.72A
Module Efficiency	21.86%	22.06%	22.25%	22.44%	22.64%

* 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	48.54V	48.69V	48.84V	48.99V	49.14V
Short Circuit Current	11.28A	11.32A	11.35A	11.40A	11.42A
Maximun Power Voltage	39.21V	39.36V	39.51V	39.66V	39.82V
Maximum Power Current	10.84A	10.90A	10.96A	11.02A	11.05A

* 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	51.12V	51.27V	15.42V	51.57V	51.72V
Short Circuit Current	15.50A	15.56A	15.64A	15.69A	15.77A
Maximun Power Voltage	42.03V	42.17V	42.34V	42.48V	42.62V
Maximum Power Current	14.80A	14.87A	14.95A	15.02A	15.11A

TEMPERATURE CHARACTERISTICS

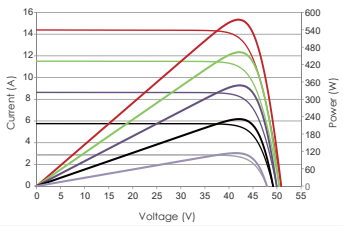
NMOT	41±3°C	Temp Coefficient of ISC	+0.046%/°C
Temp Coefficient of VOC	-0.25%/°C	Temp Coefficient of Pmax	-0.30%/°C

PACKING CONFIGURATION

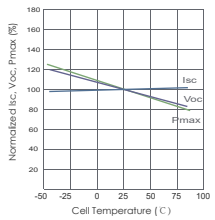
Modules/Pallet	36 Pieces	Modules/40'Container	720 Pieces
Packing Description	20 Pallets, Total=(36+36)x10=720 Pieces		

CHARACTERISTICS

LP182*182-M-72-NB-570W



LP182*182-M-72-NB-570W



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

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

Leapton Energy Co., Ltd.