



LEAPTON
SOLAR

Monofacial

Bifacial

LP182*210-M-54-NB N-Type TOPCon Dual Glass
Rated Power 475W 500W 510W



N-Type 182*210mm Cell
Adopting the 182*210mm N-Type TOPCon battery cells with the highest efficiency.



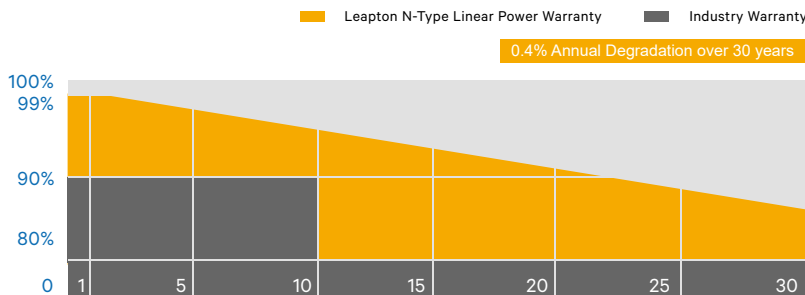
Low Light Features
Higher performance under low light environment.



Bifacial with dual glass
Module adopts 182*210mm half cells, bifacial module provide an additional 5%~25% output.



Load Capacity
Mechanical load tests including wind load 2400 Pa and snow load 5400 Pa done by TUV Nord.



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Manufacturer : Leapton Solar (Changshu) Co., Ltd.

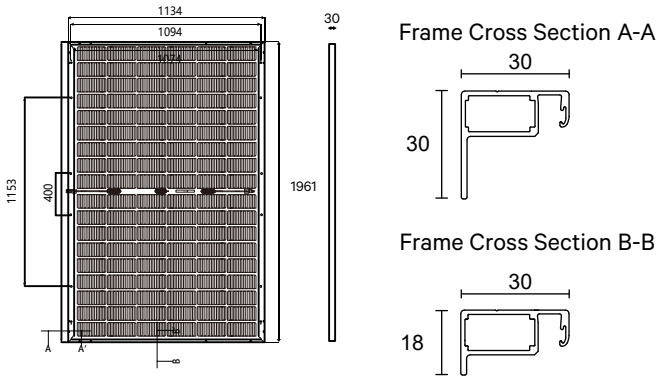
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MECHANICAL DIAGRAMS



SPECIFICATIONS

Weight	27.7kg
Dimensions	1961mm*1134mm*30mm
Cell Dimensions	182*210mm
Cell Amount	54*2 pcs
Maximum System Voltage	1500V
Junction Box	IP68
Frame	Aluminum Alloy
Cable	4mm ² , N 1200mm/P 1200mm for Horizontal installation 4mm ² , N 300mm/P 300mm for Vertical installation
Connector	PV-GZX 1500 NINGBO GZX PV TECHNOLOGY CO., LTD.
Bifaciality	ΦPmax=80±10%, ΦVoc=99±5%, ΦIsc=80±10%
Country of Manufacturer	China
Fire Safety Class	Class C according to ANSI/UL 1703-2018

ELECTRICAL PARAMETERS AT STC

Module Name	LP182*210-M-54-NB-475W	LP182*210-M-54-NB-500W	LP182*210-M-54-NB-510W
Power	475W±3%	500W±3%	510W±3%
Open Circuit Voltage	38.82V±5%	40.07V±5%	40.57V±5%
Short Circuit Current	15.59A±5%	15.90A±5%	16.01A±5%
Maximum Power Voltage	32.33V	33.33V	33.73V
Maximum Power Current	14.69A	15.00A	15.12A
Module Efficiency	21.36%	22.48%	22.93%

* 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	362W	381W	389W
Open Circuit Voltage	36.71V	38.06V	38.60V
Short Circuit Current	12.59A	12.79A	12.87A
Maximum Power Voltage	30.32V	31.32V	31.72V
Maximum Power Current	11.94A	12.16A	12.26A

* 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 BNPI

Output Power	526W	554W	565W
Open Circuit Voltage	39.02V	40.27V	40.77V
Short Circuit Current	17.27A	17.62A	17.74A
Maximum Power Voltage	32.53V	33.53V	33.93V
Maximum Power Current	16.17A	16.52A	16.65A

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

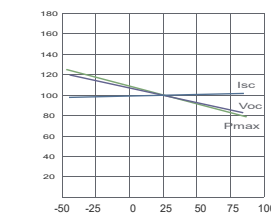
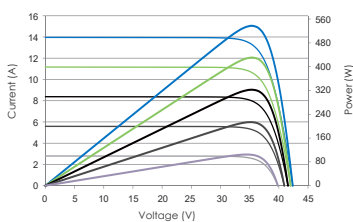
PACKING CONFIGURATION

Modules/Pallet	36 Pieces	Modules/40'Container	864 Pieces
Packing Description	24 Pallets, Total=(36+36)x12=864 Pieces		

CHARACTERISTICS

LP182*210-M-54-NB-500W

LP182*210-M-54-NB-500W



MAXIMUM RATING

Power sorting tolerance	0~+5W
Output Tolerance	±3%
Operating Temperature	-40°C~+85°C
Wind Load/Snow Load	2400pa/5400pa
Fuse Current	25A

25 YEARS Product Warranty

30 YEARS Power Warranty