



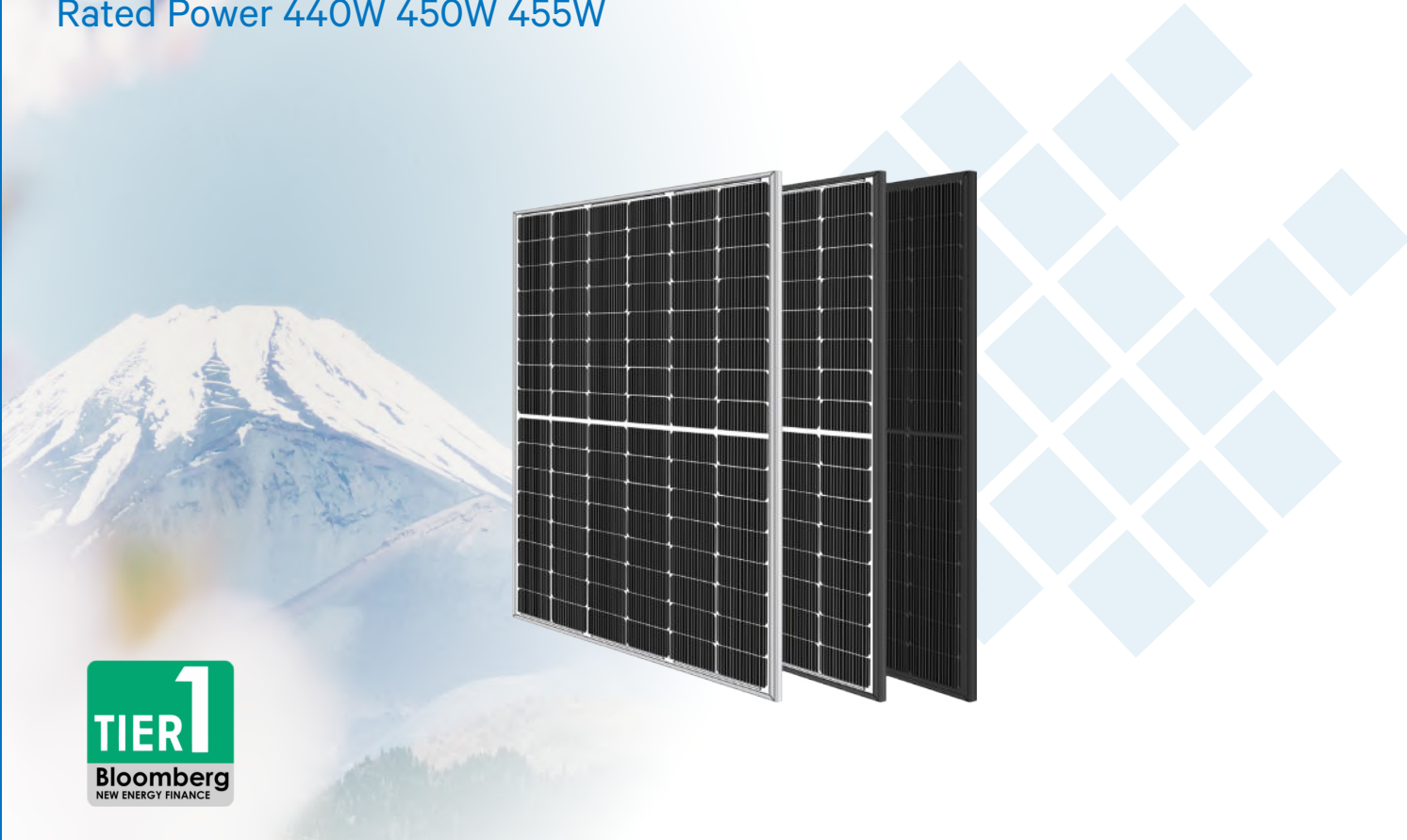
LEAPTON
SOLAR

Monofacial

Bifacial

LP182*210-M-48-NB N-Type TOPCon Dual Glass

Rated Power 440W 450W 455W



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



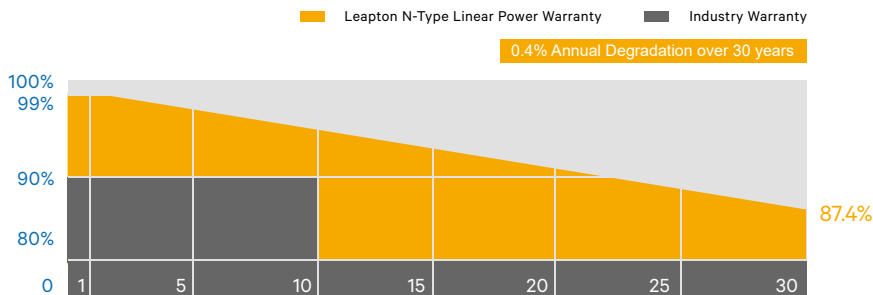
Low Light Features
Higher performance under low light environment.



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.

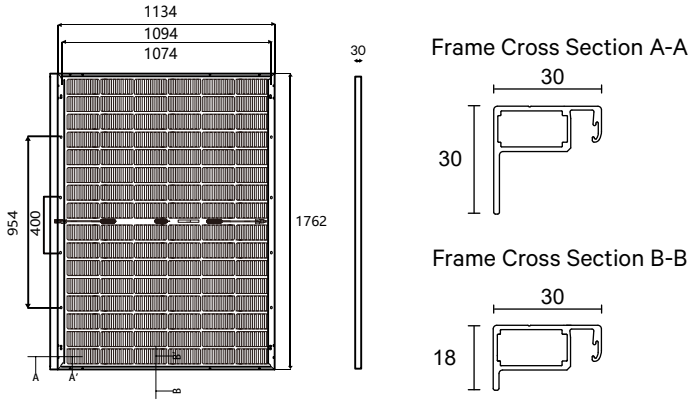
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MECHANICAL DIAGRAMS



SPECIFICATIONS

Weight	25kg
Dimensions	1762mm*1134mm*30mm
Cell Dimensions	182*210mm
Cell Amount	48*2 pcs
Maximum System Voltage	1500V
Junction Box	IP68
Frame	Aluminum Alloy
Cable	4mm ² , N 1100mm/P 1100mm 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 -48-NB-440W	LP182*210-M -48-NB-450W	LP182*210-M -48-NB-455W
Power	440W±3%	450W±3%	455W±3%
Open Circuit Voltage	35.38V±5%	35.88V±5%	36.13V±5%
Short Circuit Current	15.84A±5%	15.97A±5%	16.02A±5%
Maximum Power Voltage	29.38V	29.78V	29.98V
Maximum Power Current	14.98A	15.11A	15.18A
Module Efficiency	22.02%	22.52%	22.77%

* 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	335W	343W	347W
Open Circuit Voltage	33.56V	34.08V	34.34V
Short Circuit Current	12.74A	12.85A	12.88A
Maximum Power Voltage	27.67V	28.05V	28.24V
Maximum Power Current	12.11A	12.23A	12.29A

* 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	488W	499W	504W
Open Circuit Voltage	35.58V	36.08V	36.33V
Short Circuit Current	17.56A	17.69A	17.75A
Maximum Power Voltage	29.58V	29.98V	30.18V
Maximum Power Current	16.50A	16.64A	16.70A

TEMPERATURE CHARACTERISTICS

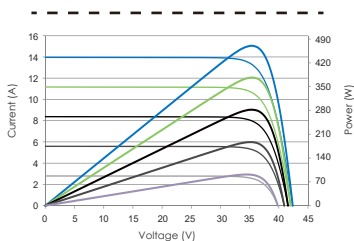
NMOT	41±3°C	Temp Coefficient of ISC	+0.046%/°C
Temp Coefficient of VOC	-0.25%/°C	Temp Coefficient of Pmax	-0.30%/°C

PACKING CONFIGURATION

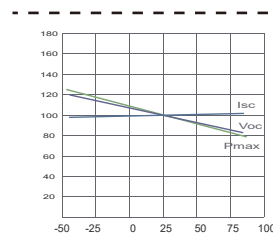
Modules/Pallet	36 Pieces	Modules/40'Container	936 Pieces
Packing Description	26 Pallets, Total=(36+36)x13=936 Pieces		

CHARACTERISTICS

LP182*210-M-48-NB-450W



LP182*210-M-48-NB-450W



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

