



LEAPTON
SOLAR

Monofacial

Bifacial

LP182*182-M-54-NH N-Type

Rated Power 420-440W



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.



Higher Output Power
Module adopts 108 pcs of 182*182mm half cells, the maximum power can reach 440W.



PID Protection
Ensure the attenuation probability caused by PID phenomenon is minimized.



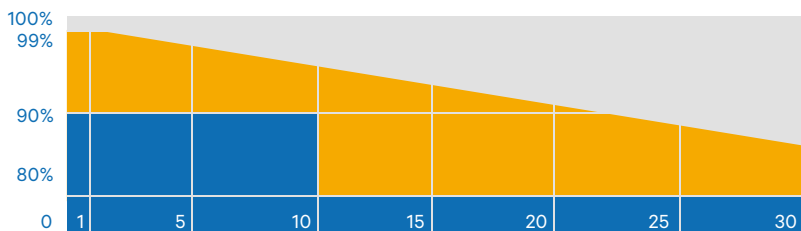
Harsh Environmental Adaptability
Strict salt spray and ammonia corrosion test by TUV Nord.



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

Leapton N-Type Linear Power Warranty Industry Warranty

0.4% Annual Degradation over 30 years



*J-PEC Product



IEC 61215-2: 2016
IEC 61730-2: 2016

Headquarter : Leapton Energy Co., Ltd.

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

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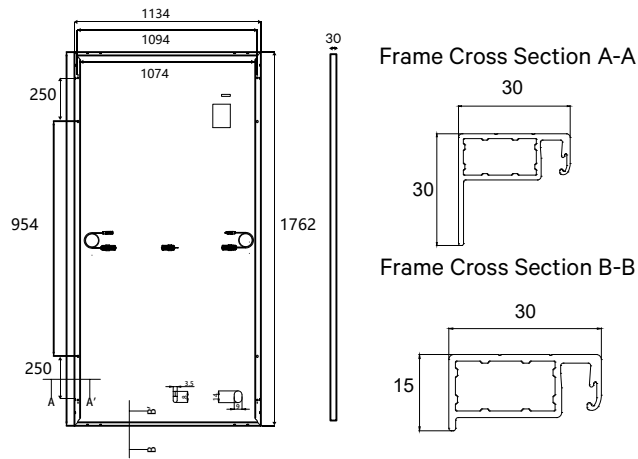
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MECHANICAL DIAGRAMS



SPECIFICATIONS

Weight	22kg
Dimensions	1762mm*1134mm*30mm
Cell Dimensions	182*182mm
Cell Amount	54*2 pcs
Maximum System Voltage	1500V
Junction Box	IP68
Frame	Aluminum Alloy
Cable	4mm ² , N 1100mm/P 1100mm or customized length
Connector	MC4 compatible
Application Level	Class A

ELECTRICAL PARAMETERS AT STC

	420W	425W	430W	435W	440W
Power	420W	425W	430W	435W	440W
Open Circuit Voltage	38.58V	38.78V	38.97V	39.18V	39.40V
Short Circuit Current	13.66A	13.73A	13.81A	13.89A	13.96A
Maximum Power Voltage	32.01V	32.20V	32.40V	32.61V	32.83V
Maximum Power Current	13.12A	13.20A	13.27A	13.34A	13.40A
Module Efficiency	21.02%	21.27%	21.52%	21.77%	22.02%

* 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

	316W	320W	324W	327W	331W
Power	316W	320W	324W	327W	331W
Open Circuit Voltage	36.65V	36.83V	37.02V	37.22V	37.43V
Short Circuit Current	10.96A	11.02A	11.09A	11.14A	11.19A
Maximum Power Voltage	29.81V	29.96V	30.08V	30.31V	30.53V
Maximum Power Current	10.60A	10.68A	10.77A	10.79A	10.84A
Module Efficiency	15.81%	16.01%	16.20%	16.37%	16.57%

* Under Nominal Module Operating Temperature (NMOT), irradiance of 800 W/m², spectrum AM 1.5, ambient temperature 20°C, wind speed 1 m/s.

TEMPERATURE CHARACTERISTICS

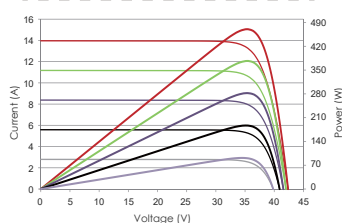
NMOT	41±3°C	Temp Coefficient of ISC	+0.046%/°C
Temp Coefficient of VOC	-0.25%/°C	Temp Coefficient of Pmax	-0.30%/°C

PACKING CONFIGURATION

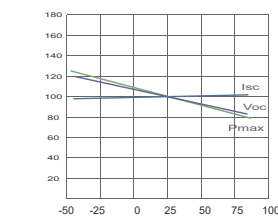
Modules/Pallet	36 Pieces	Modules/40'Container	936 Pieces
Packing Description	26 Pallets, Total=(36+36)x13=936 Pieces		

CHARACTERISTICS

LP182*182-M-54-NH-430W



LP182*182-M-54-NH-430W



MAXIMUM RATING

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

15 YEARS Quality Warranty

30 YEARS Power Warranty

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