


LEAPTON
SOLAR

Monofacial

Bifacial

LP182*210-M-66-NB N-Type TOPCon Dual Glass

Rated Power 600-625W



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.



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.

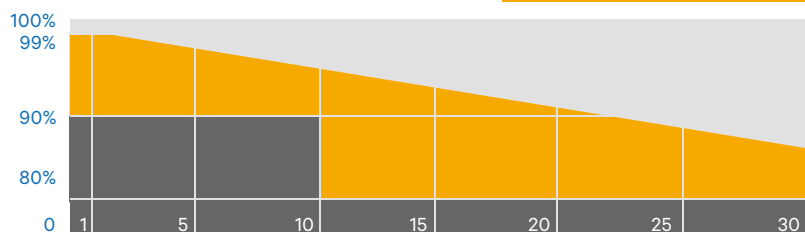


Load Capacity

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



Headquarter : Leapton Energy Co., Ltd.

〒Tosei Bldg. 6F, 1-2-1 Aioi-cho, Chuo-ku Kobe-shi, Hyogo, 650-0025, Japan

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

〒No.9, Sunshine Avenue, Changshu City, Jiangsu, China

+81-78-382-3182

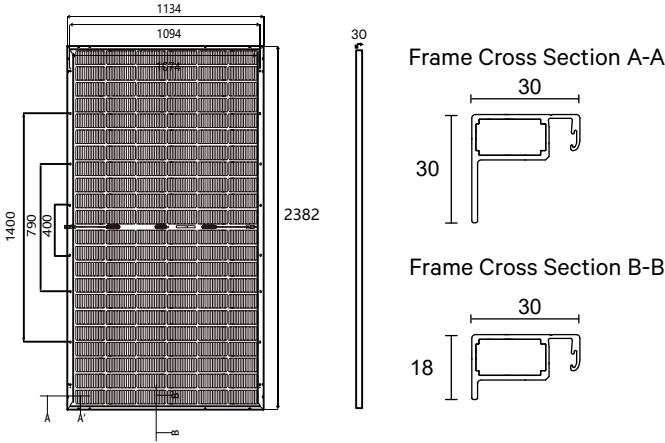
www.leaptonenergy.jp

+86-512-88800068

info@leaptonenergy.com

www.leaptonpv.com

MECHANICAL DIAGRAMS



SPECIFICATIONS

Weight	33.5kg
Dimensions	2382mm*1134mm*30mm
Cell Dimensions	182*210mm
Cell Amount	66*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 1500mm/P 1500mm for Horizontal installation 4mm ² , N 300mm/P 300mm for Vertical installation
Connector	MC4 compatible
Bifaciality	80±5%

ELECTRICAL PARAMETERS AT STC

Power	600W	605W	610W	615W	620W	625W
Open Circuit Voltage	48.45V	48.75V	49.05V	49.35V	49.55V	49.75V
Short Circuit Current	15.78A	15.81A	15.84A	15.88A	15.93A	16.00A
Maximun Power Voltage	40.26V	40.46V	40.66V	40.86V	41.06V	41.26V
Maximum Power Current	14.90A	14.95A	15.00A	15.05A	15.10A	15.15A
Module Efficiency	22.21%	22.40%	22.58%	22.77%	22.95%	23.14%

* 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	458W	461W	465W	469W	472W	476W
Open Circuit Voltage	45.91V	46.21V	46.51V	46.81V	47.01V	47.21V
Short Circuit Current	12.73A	12.76A	12.78A	12.81A	12.84A	12.88A
Maximun Power Voltage	37.80V	38.00V	38.20V	38.40V	38.60V	38.80V
Maximum Power Current	12.12A	12.13A	12.17A	12.21A	12.23A	12.27A

* 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	660W	666W	671W	677W	682W	688W
Open Circuit Voltage	48.45V	48.75V	49.05V	49.35V	49.55V	49.75V
Short Circuit Current	17.34A	17.38A	17.43A	17.47A	17.52A	17.57A
Maximun Power Voltage	40.26V	40.46V	40.66V	40.86V	41.06V	41.26V
Maximum Power Current	16.39A	16.46A	16.50A	16.57A	16.61A	16.67A

TEMPERATURE CHARACTERISTICS

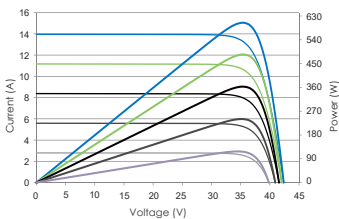
NMOT	41±3°C	Temp Coefficient of ISC	+0.046%/°C
Temp Coefficient of VOC	-0.25%/°C	Temp Coefficient of Pmax	-0.30%/°C

PACKING CONFIGURATION

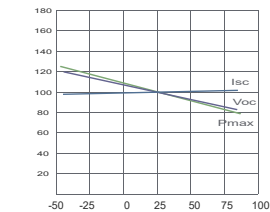
Modules/Pallet	36 Pieces	Modules/40'Container	720 Pieces
Packing Description	20 Pallets, Total=(36+36)x10=720 Pieces		

CHARACTERISTICS

LP182*210-M-66-NB-610W



LP182*210-M-66-NB-610W



MAXIMUM RATING

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



Headquarter : Lepton Energy Co., Ltd.

📍 Tosei Bldg. 6F, 1-2-1 Aioi-cho, Chuo-ku Kobe-shi, Hyogo, 650-0025, Japan

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

📍 No.9, Sunshine Avenue, Changshu City, Jiangsu, China

☎ +81-78-382-3182

🌐 www.leptonenergy.jp

☎ +86-512-88800068

✉ info@leptonenergy.com

🌐 www.leptonpv.com