

LEAP SERIES

日本発の太陽光パネルメーカー
LEAP FROM JAPAN TO THE WORLD



LP182*210-M-48Q-NB

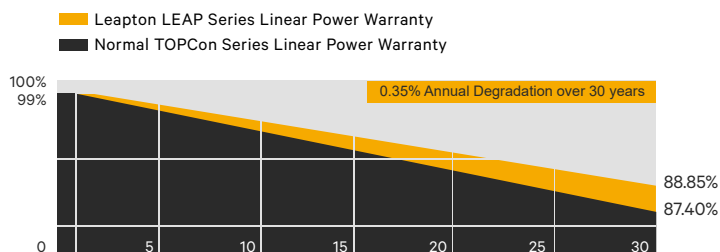
POWER RANGE 475-485W

1/ L-TOPCon: The Next Evolution of TOPCon
Enhanced through Advanced Process Innovation for 30~40W Power Gain.

2/ Enhanced Rear-Side Generation
Enhanced structure maximizes light use, boosting TOPCon bifacial efficiency.

3/ Low Light Features
Higher performance under low light environment.

4/ Lower LCOE, Greater Value
Produce More Energy and Increase Your Project Profitability.



COMPREHENSIVE CERTIFICATES

IEC 61215, IEC 61730
 ISO 9001: 2015 Quality management systems
 ISO 14001: 2015 Environmental management systems
 ISO 45001: 2018 Occupational health and safety management systems

DATASHEET VERSION: 2026 V1

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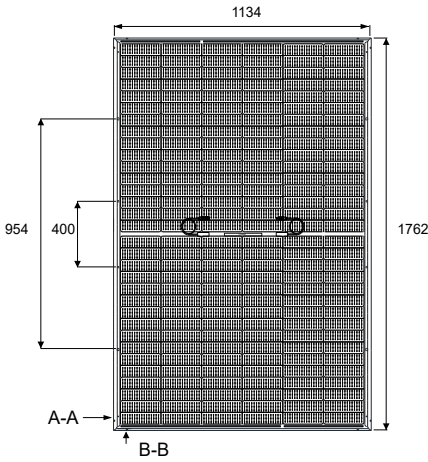
www.leaptonenergy.jp

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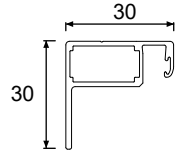
info@leaptonenergy.com

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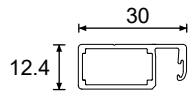
MECHANICAL DIAGRAMS



Frame Cross Section A-A



Frame Cross Section B-B



SPECIFICATIONS

Weight	24kg
Dimensions	1762mm*1134mm*30mm
Cell Dimensions	182*210mm
Cell Amount	48*4 pcs
Maximum System Voltage	1500V
Junction Box	IP68
Front glass	2.0mm, Anti-Reflection Coating
Back glass	2.0mm, Heat Strengthened Glass
Frame	Aluminum Alloy
Cable	4mm ² , N 1100mm/P 1100mm for Horizontal installation 4mm ² , N 500mm/P 500mm for Vertical installation
Connector	MC4 compatible
Bifaciality	85±5%

ELECTRICAL PARAMETERS AT STC

Power	475W	480W	485W
Open Circuit Voltage	36.58V	36.83V	37.08V
Short Circuit Current	15.93A	15.98A	16.03A
Maximum Power Voltage	31.05V	31.17V	31.29V
Maximum Power Current	15.30A	15.40A	15.50A
Module Efficiency	23.77%	24.02%	24.27%

* STC: Irradiance 1000W/m², Cell Temperature 25°C, AM=1.5

ELECTRICAL PARAMETERS AT NMOT

Power	361W	365W	369W
Open Circuit Voltage	34.75V	34.99V	35.23V
Short Circuit Current	13.04A	13.10A	13.13A
Maximum Power Voltage	29.19V	29.30V	29.43V
Maximum Power Current	12.37A	12.46A	12.54A

* NMOT: Irradiance 800W/m², Cell Temperature 20°C, AM=1.5

ELECTRICAL PARAMETERS AT BNPI

Output Power	529W	534W	540W
Open Circuit Voltage	36.68V	36.93V	37.18V
Short Circuit Current	17.75A	17.82A	17.87A
Maximum Power Voltage	31.16V	31.27V	31.40V
Maximum Power Current	16.98A	17.08A	17.20A

* BNPI: Front Irradiance 1000W/m², Rear Irradiance 135W/m², Cell Temperature 25°C, AM=1.5

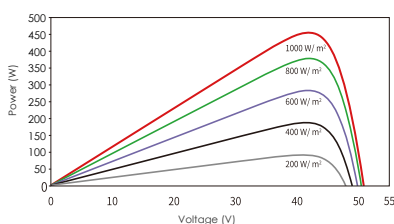
TEMPERATURE CHARACTERISTICS

NMOT	41±3°C	Modules/Pallet	37 Pieces
Temp Coefficient of ISC	+0.046%/°C	Packing Description	26 Pallets, Total=(37+37)x13=962 Pieces
Temp Coefficient of VOC	-0.24%/°C	Modules/40'Container	962 Pieces
Temp Coefficient of Pmax	-0.26%/°C		

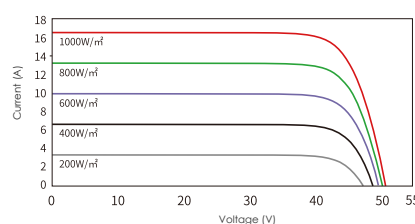
PACKING CONFIGURATION

CHARACTERISTICS

LP182*210-M-48Q-NB-485W



LP182*210-M-48Q-NB-485W



MAXIMUM RATING

Output Tolerance	0~+5W
Operating Temperature	-40°C~+70°C
Wind Load/Snow Load	2400pa/5400pa
Fuse Current	30A

25 YEARS PRODUCT WARRANTY

30 YEARS POWER WARRANTY