

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-54Q-NB

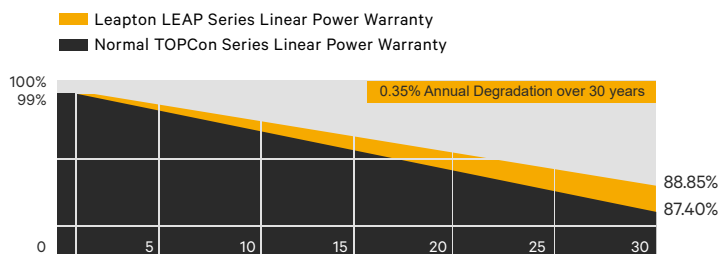
POWER RANGE 530-545W

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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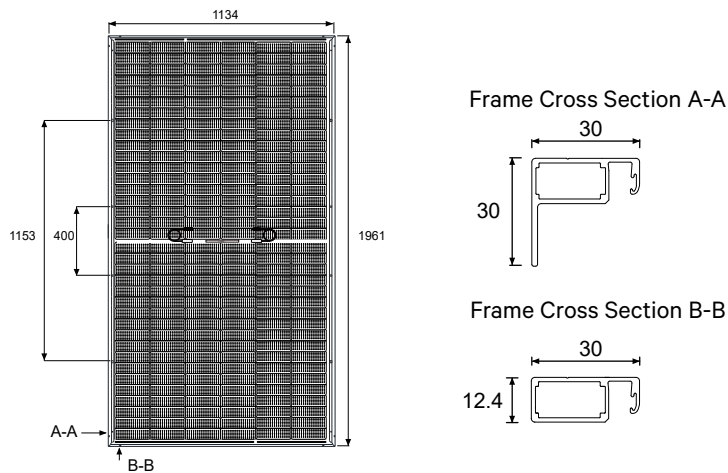
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MECHANICAL DIAGRAMS



SPECIFICATIONS

Weight	26.6kg
Dimensions	1961mm*1134mm*30mm
Cell Dimensions	182*210mm
Cell Amount	54*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 1200mm/P 1200mm for Horizontal installation 4mm ² , N 500mm/P 500mm for Vertical installation
Connector	MC4 compatible
Bifaciality	85±5%

ELECTRICAL PARAMETERS AT STC

Power	530W	535W	540W	545W
Open Circuit Voltage	40.99V	41.21V	41.43V	41.65V
Short Circuit Current	15.90A	15.96A	16.02A	16.07A
Maximum Power Voltage	34.80V	34.95V	35.07V	35.21V
Maximum Power Current	15.23A	15.31A	15.40A	15.48A
Module Efficiency	23.83%	24.06%	24.28%	24.51%

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

ELECTRICAL PARAMETERS AT NMOT

Power	403W	407W	411W	415W
Open Circuit Voltage	38.94V	39.15V	39.36V	39.57V
Short Circuit Current	13.02A	13.08A	13.12A	13.18A
Maximum Power Voltage	32.71V	32.85V	32.96V	33.10V
Maximum Power Current	12.32A	12.39A	12.47A	12.54A

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

ELECTRICAL PARAMETERS AT BNPI

Output Power	590W	589W	601W	607W
Open Circuit Voltage	41.09V	41.31V	41.53V	41.75V
Short Circuit Current	17.72A	17.79A	17.85A	17.92A
Maximum Power Voltage	34.91V	35.04V	35.17V	35.32V
Maximum Power Current	16.90A	16.98A	17.09A	17.19A

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

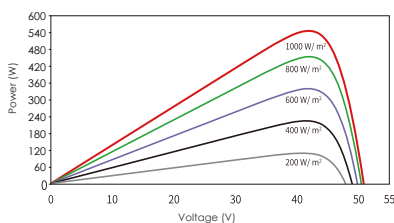
TEMPERATURE CHARACTERISTICS

NMOT	41±3°C	Modules/Pallet	37 Pieces
Temp Coefficient of ISC	+0.046%/°C	Packing Description	24 Pallets, Total=(37+37)x12=888 Pieces
Temp Coefficient of VOC	-0.24%/°C	Modules/40'Container	888 Pieces
Temp Coefficient of Pmax	-0.26%/°C		

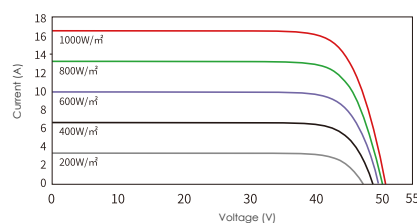
PACKING CONFIGURATION

CHARACTERISTICS

LP182*210-M-54Q-NB-545W



LP182*210-M-54Q-NB-545W



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