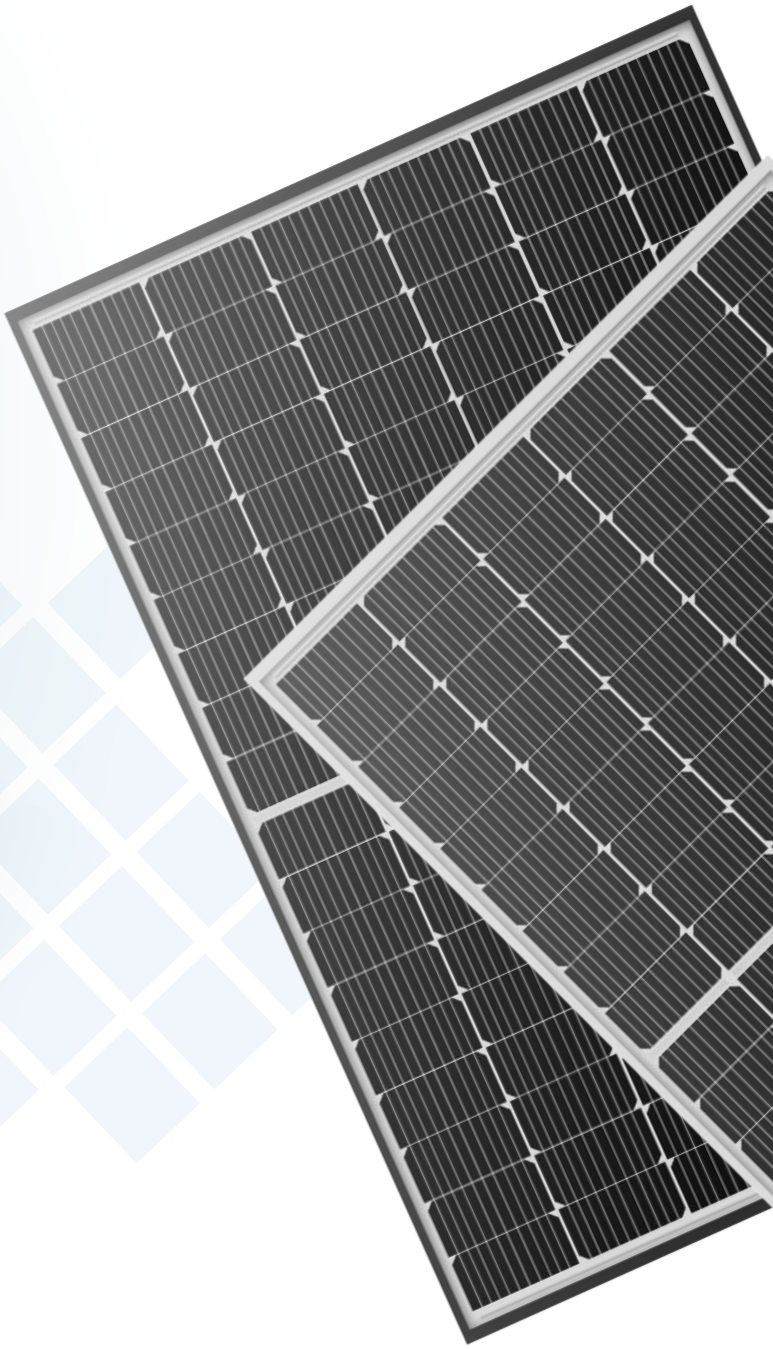
2022 V1

LEAPTON SOLAR

Monocrystalline

LP182*182-M-54-MH

Rated Power 410-415W

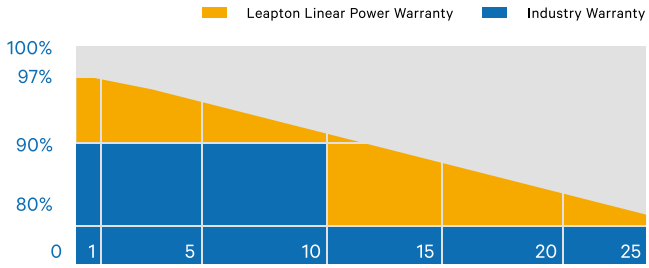


MBB Cell
New circuit design, lower internal current, lower internal resistance loss.

Higher Output Power
Module adopts 108 pcs of 182*182mm half cells, the maximum power can reach 415W.

Low Light Features
Higher performance under low light environment.

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



25 YEARS Product Warranty

25 YEARS Power Warranty

J-PEC •J-PEC Product

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

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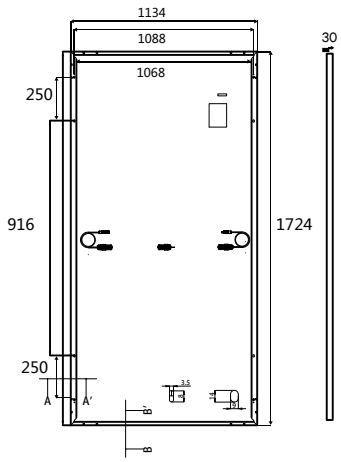
Leapton Solar (Changshu) Co., Ltd.

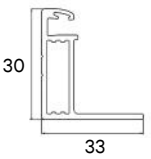
LEAPTON SOLAR

LP182*182-M-54-MH

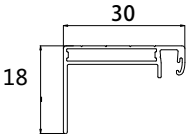
MECHANICAL DIAGRAMS



Frame Cross Section A-A



Frame Cross Section B-B



SPECIFICATIONS

Weight	21.5kg
Dimensions	1724mm*1134mm*30mm
Cell Dimensions	182*182mm
Maximum System Voltage	1500V
Junction Box	IP68
Frame	Aluminum Alloy
Cable	4mm2, Landscape: N 1100mm/P 1100mm Portrait: N 200mm/P 300mm
Connector	PV-GZX 1500
Application Level	Class A
Country of Manufacturer	China
Fire Safety Class	Class C according to ANSI/UL 1703-2018

ELECTRICAL PARAMETERS AT STC

Module Name	LP182*182-M-54-MH-410W	LP182*182-M-54-MH-415W
Power	410W	415W
Open Circuit Voltage	37.34V	37.54V
Short Circuit Current	13.70A	13.75A
Maximun Power Voltage	31.22V	31.62V
Maximum Power Current	13.06A	13.12A
Module Efficienty	20.97%	21.23%

* 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	302W	306W
Open Circuit Voltage	34.89V	35.09V
Short Circuit Current	10.80A	11.00A
Maximun Power Voltage	29.18V	29.38V
Maximum Power Current	10.35A	10.40A
Module Efficienty	15.45%	15.65%

* 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

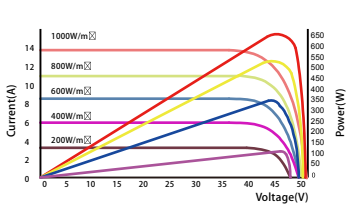
NMOT	41±3°C	Temp Coefficient of ISC	+0.05%/°C
Temp Coefficient of VOC	-0.28%/°C	Temp Coefficient of Pmax	-0.36%/°C

PACKING CONFIGURATION

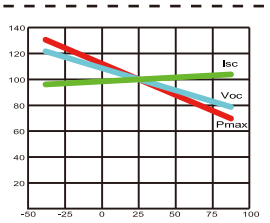
Modules/Pallet	36 Pieces	Modules/40'Container	936 Pieces
Packing Description	26 Pallets, Total=(36+36)x13=936 Pieces		

CHARACTERISTICS

LP182*182-M-54-MH-410W



LP182*182-M-54-MH-410W



MAXIMUM RATING

Power Tolerance	Pmax:±3% Binning:±5W Voc:±5% Isc:±5%
Operating Temperature	-40°C~+85°C
Wind Load/Snow Load	2400pa/5400pa
Fuse Current	15A

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25 YEARS Power Warranty