



LEAPTON
SOLAR

Monocrystalline

LP182*182-M-66-MH

Rated Power 490-510W



MBB Cell

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



Low Light Features

Higher performance under low light environment.



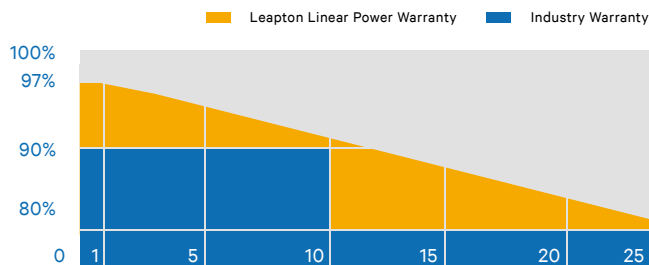
Higher Output Power

Module adopts 132 pcs of 182*182mm half cells, the maximum power can reach 510W.



Load Capacity

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



*J-PEC Product



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

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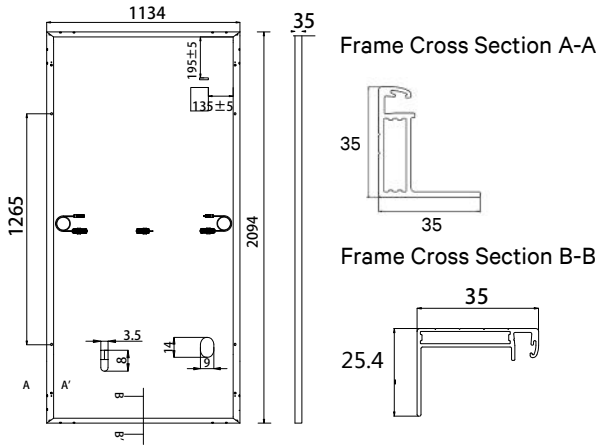
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MECHANICAL DIAGRAMS



SPECIFICATIONS

Weight	26.5kg
Dimensions	2094mm*1134mm*35mm
Cell Dimensions	182*182mm
Maximum System Voltage	1500V
Junction Box	IP68
Frame	Aluminum Alloy
Cable	4mm ² , Landscape: N 1300mm/P 1300mm 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 1703-2108 (per ANSI/UL 790-2018)

ELECTRICAL PARAMETERS AT STC

Module Name	LP182*182-M-66-MH-490W	LP182*182-M-66-MH-495W	LP182*182-M-66-MH-500W	LP182*182-M-66-MH-505W	LP182*182-M-66-MH-510W
Power	490W±3%	495W±3%	500W±3%	505W±3%	510W±3%
Open Circuit Voltage	44.90V±5%	45.10V±5%	45.30V±5%	45.50V±5%	45.70V±5%
Short Circuit Current	13.73A±5%	13.78A±5%	13.83A±5%	13.89A±5%	13.94A±5%
Maximum Power Voltage	37.40V	37.60V	37.80V	38.00V	38.20V
Maximum Power Current	13.10A	13.16A	13.22A	13.28A	13.34A
Module Efficiency	20.64%	21.85%	21.06%	21.27%	21.48%

* 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	360W	364W	368W	372W	375W
Open Circuit Voltage	41.90V	42.10V	42.30V	42.50V	42.70V
Short Circuit Current	11.07A	11.12A	11.17A	11.22A	11.27A
Maximum Power Voltage	34.80V	35.00V	35.20V	35.40V	35.60V
Maximum Power Current	10.35A	10.40A	10.45A	10.51A	10.53A
Module Efficiency	15.16%	15.33%	15.50%	15.67%	15.80%

* 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

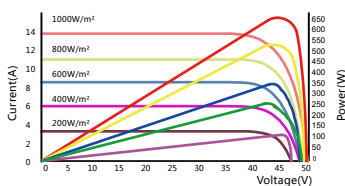
NMOT	41±3°C	Temp Coefficient of ISC	+0.05%/°C
Temp Coefficient of VOC	-0.28%/°C	Temp Coefficient of Pmax	-0.36%/°C

PACKING CONFIGURATION

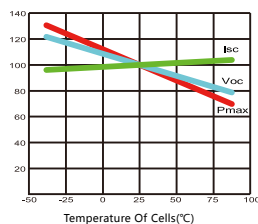
Modules/Pallet	31 Pieces	Modules/40'Container	682 Pieces
Packing Description	22 Pallets, Total=(31+31)x11=682 Pieces		

CHARACTERISTICS

LP182*182-M-66-MH-490W



LP182*182-M-66-MH-490W



MAXIMUM RATING

Output Tolerance	±3%
Operating Temperature	-40°C~+85°C
Wind Load/Snow Load	2400pa/5400pa
Fuse Current	25A

