

LUXPOWER® SERIES 5

490-510W Mono

132 Half-Cell Layout

M10/182mm Cell



Gallium-doped Technology



Half Cut Cell Technology



MBB Technology



Anti-PID
Low LID
Performance

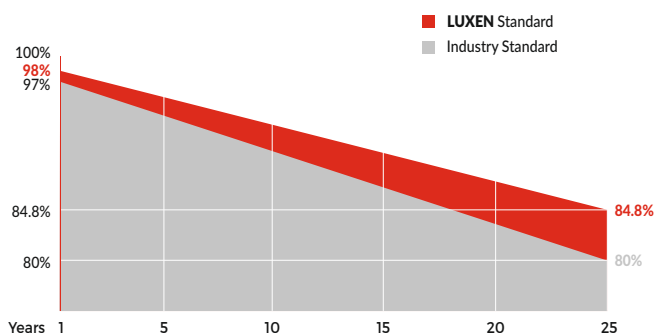


Less Hot Spot
Shading Effects



Lower BOS & LCOE

Linear performance Warranty



Comprehensive Certificates

- ISO9001:2015 QMS
- ISO14001:2015 EMS
- ISO45001:2018 OHSMS
- IEC 61215:2016/IEC 61730:2016 Standard quality



LUXEN SOLAR ENERGY CO., LTD.

Manufacturer add: NO.22, North Guandu Road, Wuzhong District, 215104 Suzhou, Jiangsu Province, P.R.China.

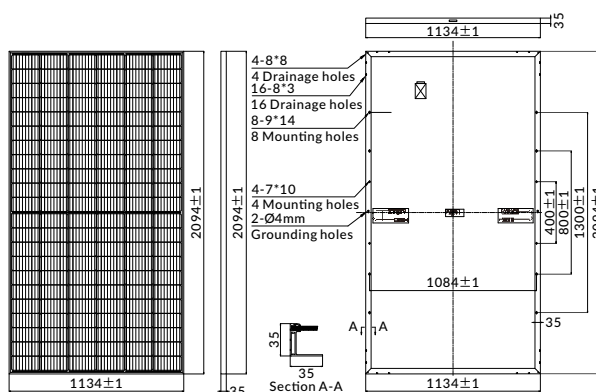
Factory add: No.1 Haiyue Road, Sutong Technologies & Industries Park, 226001 Nantong City, Jiangsu Province, P.R.China.

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MECHANICAL CHARACTERISTICS

Solar Cells	Mono
No. of Cells	132 (6x22)
Dimensions	2094 x 1134 x 35mm
Weight	25.5kgs
Front Glass	3.2mm coated tempered glass
Frame	Anodized aluminium alloy
Junction Box	Ip68 rated (3 by pass diodes)
	4.0mm ²
Output Cables	300mm (+) / 300mm (-)
	Length can be customized
Connectors	Suzhou Xitong Photovoltage Technology Co., Ltd.
	PV-XT101.1
Mechanical load test	Front 5400Pa / Rear 2400Pa
PV Module Fire Class	Class C



ELECTRICAL PARAMETERS

POWER CLASS	LNVT-490M		LNVT-495M		LNVT-500M		LNVT-505M		LNVT-510M	
	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT
Maximum power (Pmax)	490W	369W	495W	373W	500W	377W	505W	381W	510W	385W
Open Circuit Voltage (Voc)	46.34V	43.78V	46.51V	44.03V	46.67V	44.28V	46.83V	44.52V	46.99V	44.77V
Short Circuit Current (Isc)	13.67A	10.93A	13.74A	10.97A	13.81A	11.01A	13.88A	11.05A	13.95A	11.09A
Voltage at Maximum power (Vmpp)	38.34V	35.79V	38.52V	36.04V	38.70V	36.28V	38.88V	36.53V	39.05V	36.77V
Current Maximum Power (Impp)	12.78A	10.31A	12.85A	10.35A	12.92A	10.39A	12.99A	10.43A	13.06A	10.47A
MODULE EFFICIENCY (%)	20.64%		20.85%		21.06%		21.27%		21.48%	

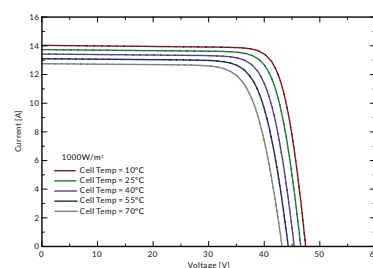
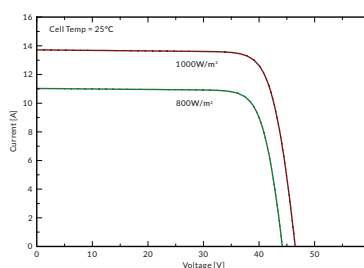
STC: Irradiance 1000W/m², cell temperature 25°C, AM1.5GNMOT: Irradiance 800W/m², ambient temperature 20°C, wind speed 1m/s, AM1.5G

PACKING CONFIGURATION

Container	20'GP	40'HQ
Pieces per pallet	31	31
Pallets per container	5	22
Pieces per container	155	682

I-V CURVE

LNVT-500M/I-V



OPERATING CHARACTERISTICS

Operating Module Temperature	-40°C to +85°C
Maximum System Voltage	1500 DC (IEC)
Maximum Series Fuse Rating	25A
Power Tolerance	±3%

TEMPERATURE CHARACTERISTICS

Nominal Operating Temperature (NMOT)	45±2°C
Temperature Coefficient of Pmax	-0.36%/°C
Temperature Coefficient of Voc	-0.28%/°C
Temperature Coefficient of Isc	+0.05%/°C

Note: Due to continuous technical innovation, R&D and improvement, technical data above mentioned may be of modification accordingly. LUXEN SOLAR have the sole right to make such modification at anytime without further notice.