

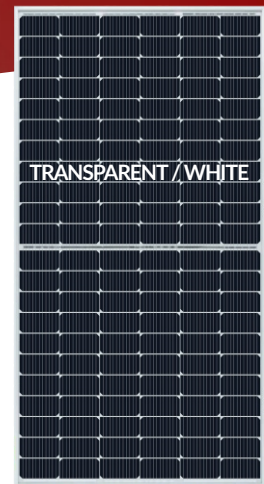
LUXPOWER® SERIES 5

480-500W Mono Transparent Backsheet

M10/182mm Cell . 132 Half-Cell Layout



LUXPOWER® Series 5 solar modules stand out with the breakthrough innovation of M10 size (182mm) solar cells for the highest power generation and the lowest LCOE, which makes Series 5 the optimal choice for large solar power plants. The gallium-doped wafer technology empowers significantly the performance against LID and the latest integrated segmented ribbon technology increases the power output and enhances the module reliability for long-term use.



Gallium-doped Technology



Half Cut Cell Technology



MBB Technology



Anti-PID
Low LID
Performance

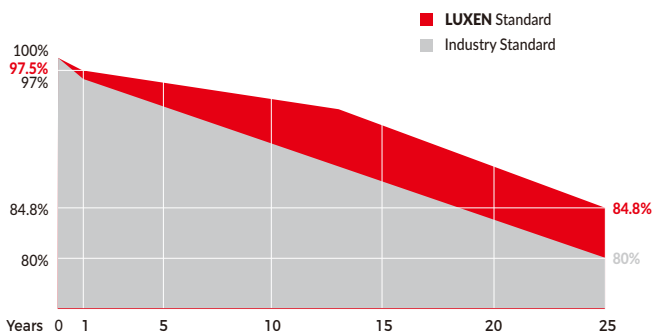


Less Hot Spot
Shading Effects



Lower BOS & LCOE

Linear performance Warranty



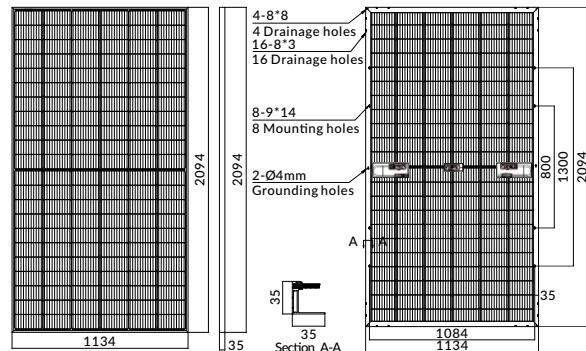
Comprehensive Certificates

- ISO9001:2015 QMS
- ISO14001:2015 EMS
- ISO45001:2018 OHSMS
- IEC61215/IEC61730 Standard quality



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 (+) / 400mm (-)
	Length can be customized
Connectors	Mc4 compatible
Mechanical load test	5400Pa



ELECTRICAL PARAMETERS

POWER CLASS	LNVT-480M	LNVT-485M	LNVT-490M	LNVT-495M	LNVT-500M
	STC	STC	STC	STC	STC
Maximum power (Pmax)	480W	485W	490W	495W	500W
Open Circuit Voltage (Voc)	48.18V	48.34V	48.51V	48.67V	48.83V
Short Circuit Current (Isc)	12.92A	12.99A	13.06A	13.13A	13.20A
Voltage at Maximum power (Vmpp)	39.90V	40.08V	40.26V	40.44V	40.62V
Current Maximum Power (Impp)	12.03A	12.10A	12.17A	12.24A	12.31A
MODULE EFFICIENCY (%)	20.21%	20.42%	20.64%	20.85%	21.06%

STC: Irradiance 1000W/m², cell temperature 25°C, AM1.5G

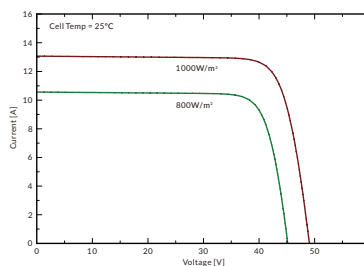
BIFACIAL OUTPUT-REAR SIDE POWER GAIN

5%	Maximum power (Pmax)	504W	509W	515W	520W	525W
	Module Efficiency STC (%)	21.22%	21.45%	21.67%	21.89%	22.11%
15%	Maximum power (Pmax)	552W	558W	564W	569W	575W
	Module Efficiency STC (%)	23.25%	23.49%	23.73%	23.97%	24.21%
25%	Maximum Power (Pmax)	600W	606W	613W	619W	625W
	Module Efficiency STC (%)	25.27%	25.53%	25.79%	26.06%	26.32%

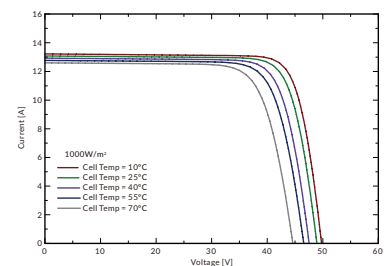
PACKING CONFIGURATION

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

I-V CURVE



LNVT-495M/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	0/+5W

TEMPERATURE CHARACTERISTICS

Nominal Operating Temperature (Noct)	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.