

LUXPOWER® SERIES 5

480-500W Mono BIFACIAL DG

M10/182mm Cell . 132 Half-Cell Layout



The breakthrough innovation of M10 (182mm) solar cell with the gallium-doped technology empowers the LUXPOWER® Series 5 BIFACIAL solar modules with the highest power generation and the lowest LCOE, reducing the LID defect, the hot spot risk and the shading effects and increasing significantly the power output by absorbing the diffused light on the rear side. The double-glass framed construction enhances the long-term durability and performance of the module in all conditions.



Bifacial Cell Module Technologies



Gallium-doped Technology



Half Cut Cell Technology



Anti-PID Low LID Performance

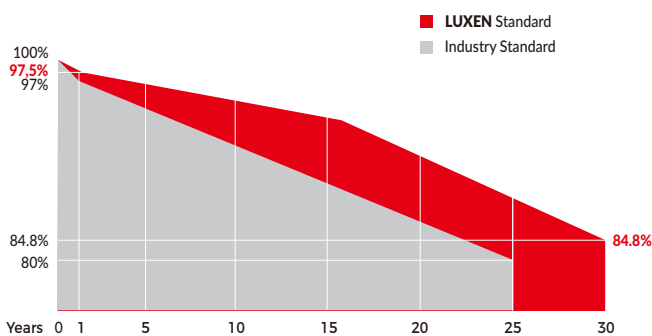


Less Hot Spot Shading Effects



Enduring High Reliability & Performance

Linear performance Warranty



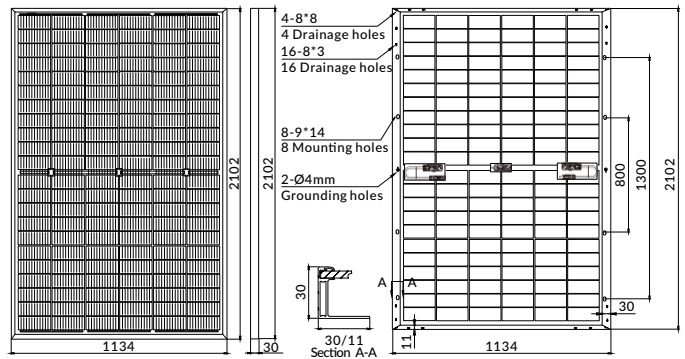
Comprehensive Certificates

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



MECHANICAL CHARACTERISTICS

Solar Cells	Mono
No. of Cells	132 (6x22)
Dimensions	2102 x 1134 x 30mm
Weight	28.5kgs
Front Glass	2.0mm coated semi-tempered glass
Back Glass	2.0mm semi-tempered glass
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	LNVТ-480MD	LNVТ-485MD	LNVТ-490MD	LNVТ-495MD	LNVТ-500MD
	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 (%)	20.14%	20.35%	20.56%	20.77%	20.98%

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

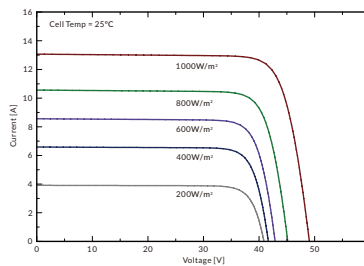
BIFACIAL OUTPUT-REAR SIDE POWER GAIN

5%	Maximum power (Pmax)	504W	509W	515W	520W	525W
	Module Efficiency STC (%)	21.14%	21.36%	21.58%	21.80%	22.02%
15%	Maximum power (Pmax)	552W	558W	564W	569W	575W
	Module Efficiency STC (%)	23.16%	23.40%	23.64%	23.88%	24.12%
25%	Maximum Power (Pmax)	600W	606W	613W	619W	625W
	Module Efficiency STC (%)	25.17%	25.43%	25.70%	25.96%	26.22%

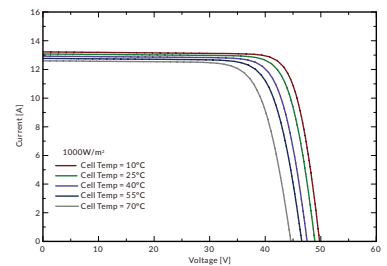
PACKING CONFIGURATION

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

I-V CURVE



LNVТ-495M/I-V



OPERATING CHARACTERISTICS

Operating Module Temperature	-40°C to + 85°C
Maximun System Voltage	1500 DC (IEC)
Maximun 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.