

LUXPOWER® SERIES 5

525-545W Mono Transparent Backsheet

M10/182mm Cell . 144 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

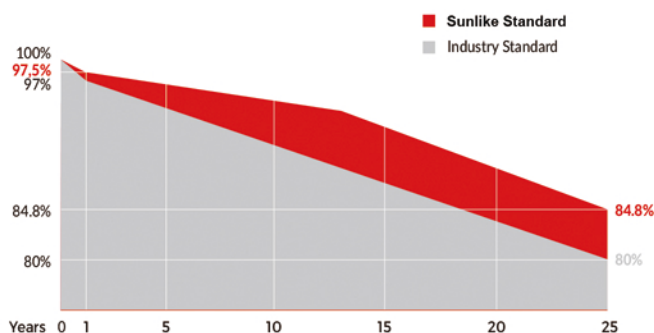


Less Hot Spot
Shading Effects



Lower BOS & LCOE

Linear performance Warranty



Comprehensive Certificates

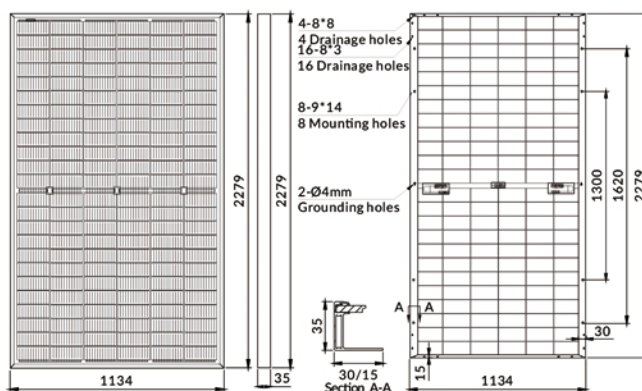
- ISO9001:2015 QMS
- ISO14001:2015 EMS
- ISO45001:2018 OHSMS
- IEC61215/IEC61730 Standard quality



LUXPOWER® Mono | 525 - 545W TRANSPARENT BACKSHEET

MECHANICAL CHARACTERISTICS

Solar Cells	Mono
No. of Cells	144 (6x24)
Dimensions	2279 x 1134 x 35mm
Weight	28.5kgs
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	LNvu-525M	LNvu-530M	LNvu-535M	LNvu-540M	LNvu-545M
	STC	STC	STC	STC	STC
Maximum power (P _{max})	525W	530W	535W	540W	545W
Open Circuit Voltage (V _{oc})	49.59V	49.74V	49.89V	50.04V	50.18V
Short Circuit Current (I _{sc})	13.55A	13.62A	13.69A	13.76A	13.83A
Voltage at Maximum power (V _{mpp})	41.47V	41.63V	41.80V	41.96V	42.12V
Current Maximum Power (I _{mpp})	12.66A	12.73A	12.80A	12.87A	12.94A
MODULE EFFICIENCY (%)	20.31%	20.51%	20.70%	20.89%	21.09%

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

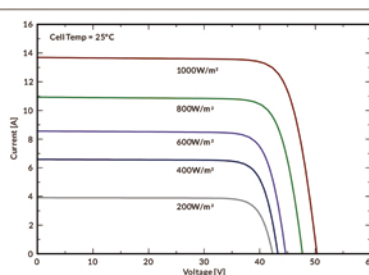
BIFACIAL OUTPUT-REAR SIDE POWER GAIN

5%	Maximum power (P _{max})	551W	557W	562W	567W	572W
	Module Efficiency STC (%)	21.33%	21.53%	21.74%	21.94%	22.14%
15%	Maximum power (P _{max})	604W	610W	615W	621W	627W
	Module Efficiency STC (%)	23.36%	23.58%	23.81%	24.03%	24.25%
25%	Maximum Power (P _{max})	656W	663W	669W	675W	681W
	Module Efficiency STC (%)	25.39%	25.63%	25.88%	26.12%	26.36%

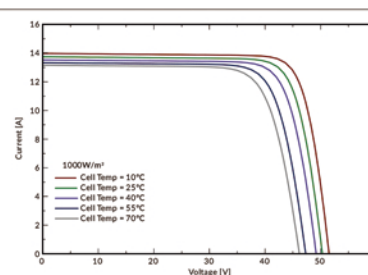
PACKING CONFIGURATION

Container	20'GP	40'HQ
Pieces per pallet	31	31
Pallets per container	5	20
Pieces per container	155	620

I-V CURVE



LNvu-540M/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 P _{max}	-0.36%/°C
Temperature Coefficient of V _{oc}	-0.28%/°C
Temperature Coefficient of I _{sc}	+0.05%/°C

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

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