

# LUXPOWER® SERIES 5

**550W Mono**  
144 Half-Cell Layout  
M10/182mm Cell



Gallium-doped Technology



Half Cut Cell Technology



MBB Technology



Anti-PID  
Low LID  
Performance

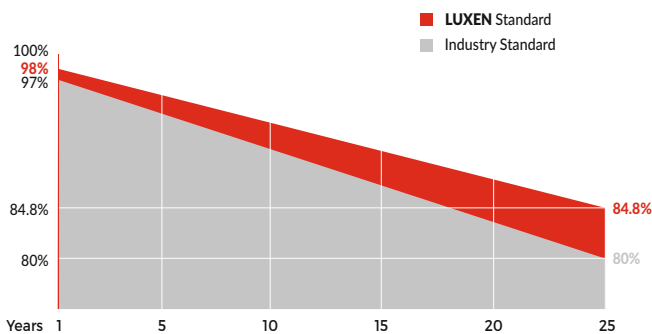


Less Hot Spot  
Shading Effects



Lower BOS & LCOE

## Linear performance Warranty



## Comprehensive Certificates

- ISO9001:2015 QMS
- ISO14001:2015 EMS
- ISO45001:2018 OHSMS
- IEC61215/IEC61730 Standard Quality
- IEC61701/IEC62716 Salt/Mist/Ammonia Tests



LUXEN SOLAR ENERGY CO., LTD.

Manufacturer: A301, Zhongyi Building, No.59 Wuzhong Avenue, Wuzhong District, Suzhou, 215168, China

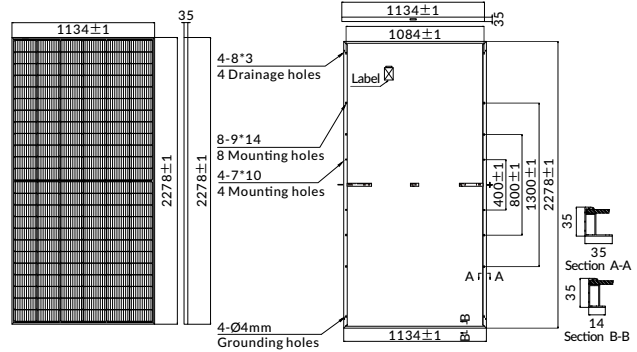
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MECHANICAL CHARACTERISTICS

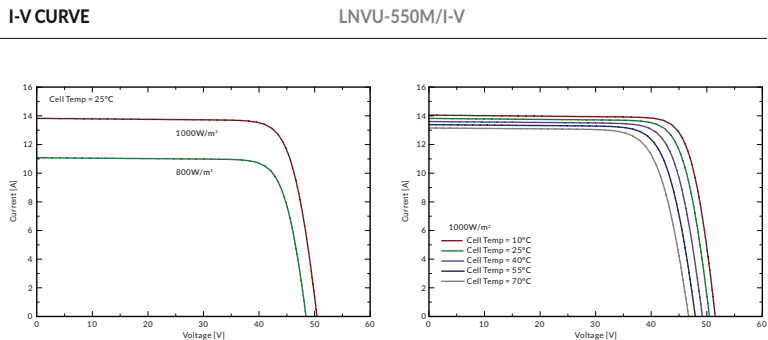
Solar Cells	Mono
No. of Cells	144 (6x24)
Dimensions	2278 x 1134 x 35mm
Weight	27.5kg
Front Glass	3.2mm coated tempered glass
Frame	Anodized aluminium alloy
Junction Box	Ip68 rated (3 by pass diodes)
	4.0mm <sup>2</sup>
Output Cables	300mm (+) / 300mm (-)
	Length can be customized
Connectors	Mc4 compatible
Mechanical load test	5400Pa



ELECTRICAL PARAMETERS

POWER CLASS	LNVU-550M	
	STC	NMOT
Maximum power (Pmax)	550W	417W
Open Circuit Voltage (Voc)	50.32V	48.10V
Short Circuit Current (Isc)	13.90A	11.07A
Voltage at Maximum power (Vmpp)	42.28V	39.90V
Current Maximum Power (Impp)	13.01A	10.45A
MODULE EFFICIENCY (%)	21.30%	
STC: Irradiance 1000W/m <sup>2</sup> , cell temperature 25°C, AM1.5G      NMOT: Irradiance 800W/m <sup>2</sup> , 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	20
Pieces per container	155	620



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 (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: The specifications, data and technical characteristics provided in this data sheet are subject to changes due to continuous R&D, product innovation and improvement. LUXEN SOLAR reserves the right to modify the information any time without prior notice.