

# LUXPOWER® SERIES 5

**595W Mono**  
156 Half-Cell Layout  
M10/182mm Cell



Gallium-doped Technology



Half Cut Cell Technology



MBB Technology



Anti-PID  
Low LID  
Performance

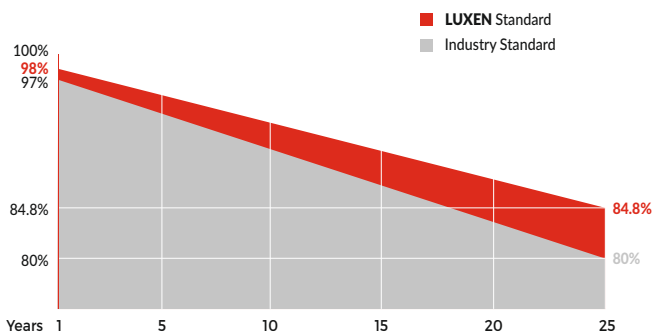


Less Hot Spot  
Shading Effects



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

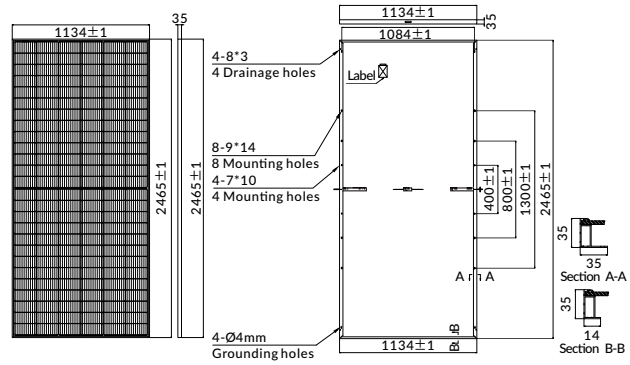
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**MECHANICAL CHARACTERISTICS**

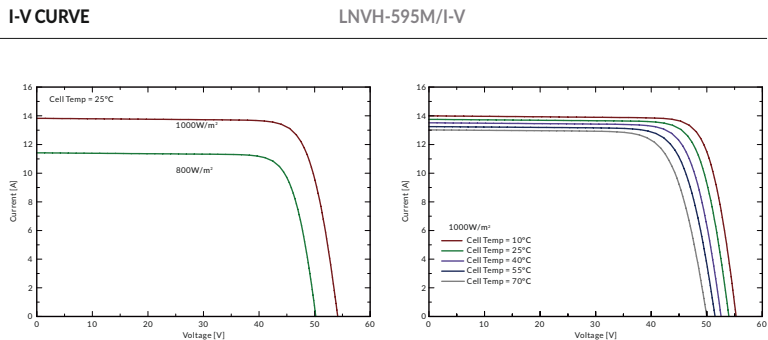
Solar Cells	Mono
No. of Cells	156 (6x26)
Dimensions	2465 x 1134 x 35mm
Weight	30.0kg
Front Glass	3.2mm coated tempered glass
Frame	Anodized aluminium alloy
Junction Box	Ip68 rated (3 by pass diodes)
Output Cables	4.0mm <sup>2</sup> 300mm (+) / 300mm (-) Length can be customized
Connectors	Mc4 compatible
Mechanical load test	5400Pa



**ELECTRICAL PARAMETERS**

POWER CLASS	LNVH-595M	
	STC	NMOT
Maximum power (Pmax)	595W	453W
Open Circuit Voltage (Voc)	54.00V	50.13V
Short Circuit Current (Isc)	13.87A	11.43A
Voltage at Maximum power (Vmpp)	45.88V	41.91V
Current Maximum Power (Impp)	12.97A	10.81A
MODULE EFFICIENCY (%)	21.29%	
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	4	16
Pieces per container	124	496



**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.