

LUXPOWER® SERIES 5 580-600W Mono

M10/182mm Cell . 156 Half-Cell Layout

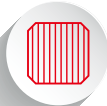
LUXPOWER® Series 5 solar modules stand out with the breakthrough innovation of M10 size (182mm) solar cells for the highest power generation and the lowest LCOE, which makes Series 5 the optimal choice for large solar power plants. The gallium-doped wafer technology empowers significantly the performance 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

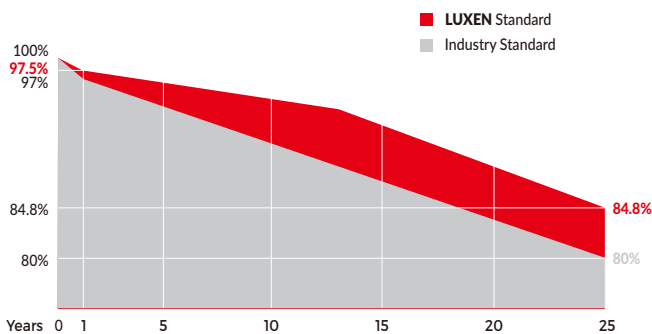


Less Hot Spot
Shading Effects



Lower BOS & LCOE

Linear performance Warranty



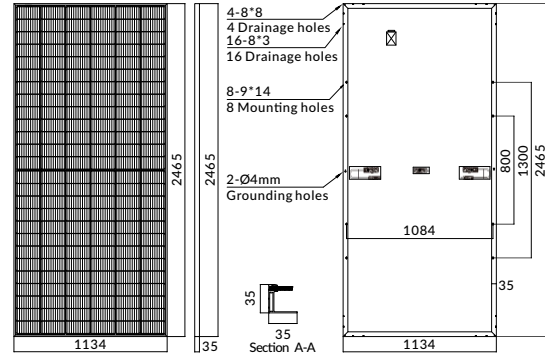
Comprehensive Certificates

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



MECHANICAL CHARACTERISTICS

Solar Cells	Mono
No. of Cells	156 (6x26)
Dimensions	2465 x 1134 x 35mm
Weight	30.0kgs
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	LNVH-580M		LNVH-585M		LNVH-590M		LNVH-595M		LNVH-600M	
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum power (Pmax)	580W	441W	585W	445W	590W	449W	595W	453W	600W	457W
Open Circuit Voltage (Voc)	53.62V	49.47V	53.75V	49.69V	53.88V	49.91V	54.00V	50.13V	54.12V	50.35V
Short Circuit Current (Isc)	13.66A	11.31A	13.73A	11.35A	13.80A	11.39A	13.87A	11.43A	13.94A	11.47A
Voltage at Maximum power (Vmpp)	45.45V	41.25V	45.60V	41.47V	45.74V	41.69V	45.88V	41.91V	46.01V	42.12V
Current Maximum Power (Impp)	12.76A	10.69A	12.83A	10.73A	12.90A	10.77A	12.97A	10.81A	13.04A	10.85A
MODULE EFFICIENCY (%)	20.75%		20.93%		21.11%		21.29%		21.46%	

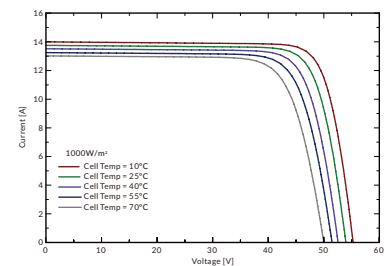
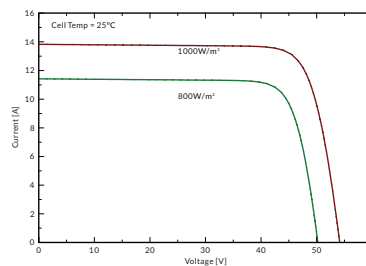
STC: Irradiance 1000W/m², cell temperature 25°C, AM1.5G NOCT: Irradiance 800W/m², ambient temperature 20°C, wind speed 1m/s, AM1.5G

PACKING CONFIGURATION

Container	20'GP	40'HQ
Pieces per pallet	31	31
Pallets per container	4	16
Pieces per container	124	496

I-V CURVE

LNVH-595M/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.