

LUXPOWER® SERIES 5

535-555W Mono

144 Half-Cell Layout

M10/182mm Cell



Gallium-doped Technology



Half Cut Cell Technology



MBB Technology



Anti-PID
Low LID
Performance

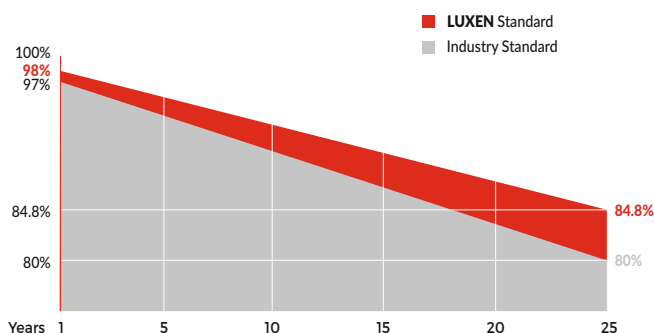


Less Hot Spot
Shading Effects



Lower BOS & LCOE

Linear performance Warranty



* LUXEN PERC: Standard warranty 12 years, can be extended up to 15 years.

Comprehensive Certificates

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



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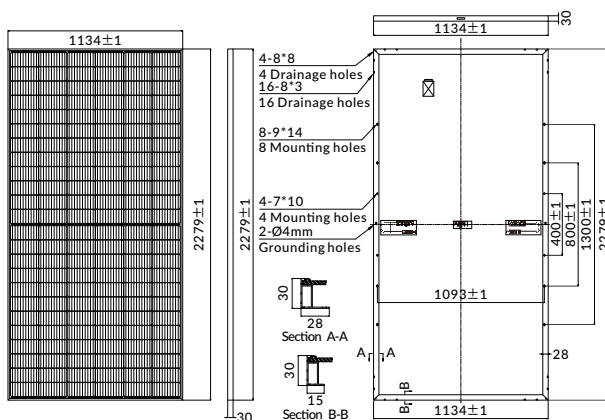
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MECHANICAL CHARACTERISTICS

Solar Cells	Mono
No. of Cells	144 (6x24)
Dimensions	2279 x 1134 x 30mm
Weight	27.0kg
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 (+) / 300mm (-)
	Length can be customized
Connectors	Mc4 compatible
Mechanical load test	5400Pa



ELECTRICAL PARAMETERS

POWER CLASS	LNVU-535M		LNVU-540M		LNVU-545M		LNVU-550M		LNVU-555M	
	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT
Maximum power (Pmax)	535W	405W	540W	409W	545W	413W	550W	417W	555W	421W
Open Circuit Voltage (Voc)	49.89V	47.40V	50.04V	47.63V	50.18V	47.87V	50.32V	48.10V	50.47V	48.33V
Short Circuit Current (Isc)	13.69A	10.95A	13.76A	10.99A	13.83A	11.03A	13.90A	11.07A	13.97A	11.11A
Voltage at Maximum power (Vmpp)	41.80V	39.21V	41.96V	39.44V	42.12V	39.67V	42.28V	39.90V	42.43V	40.13V
Current Maximum Power (Impp)	12.80A	10.33A	12.87A	10.37A	12.94A	10.41A	13.01A	10.45A	13.08A	10.49A
MODULE EFFICIENCY (%)	20.70%		20.89%		21.09%		21.28%		21.48%	

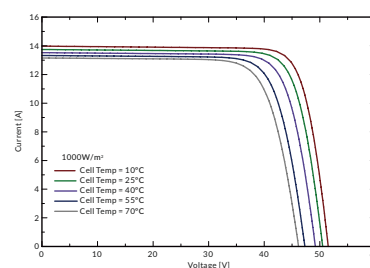
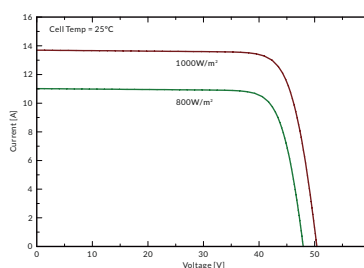
STC: Irradiance 1000W/m², cell temperature 25°C, AM1.5GNMOT: Irradiance 800W/m², ambient temperature 20°C, wind speed 1m/s, AM1.5G

PACKING CONFIGURATION

Container	20'GP	40'HQ
Pieces per pallet	36	36
Pallets per container	5	20
Pieces per container	180	720

I-V CURVE

LNVU-545M/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 (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.