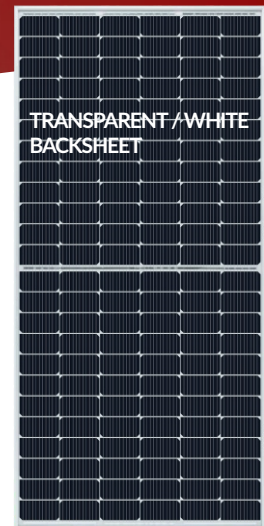


LUXPOWER® SERIES 5

530-550W Mono Transparent Backsheet

144 Half-Cell Layout

M10/182mm Cell



Gallium-doped Technology



Half Cut Cell Technology



MBB Technology



Anti-PID
Low LID
Performance

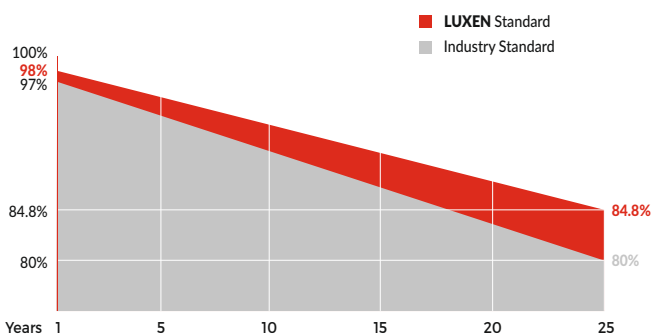


Less Hot Spot
Shading Effects



Lower BOS & LCOE

Linear Performance Warranty



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

Insured By



Comprehensive Certificates

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



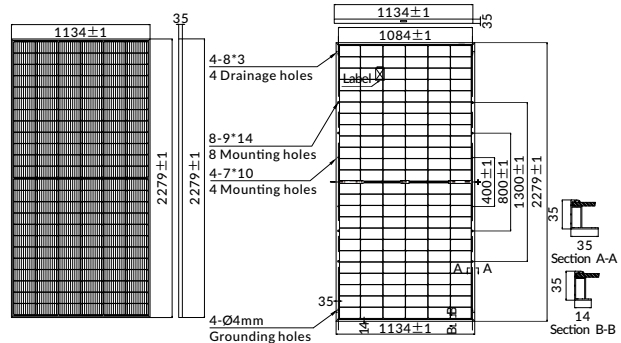
LUXEN SOLAR ENERGY CO., LTD.

Operational HQ: Vienna Technology Center, Christine-Touaillon-Strasse 11/2.01, 1220 Vienna, Austria
 Production HQ: No.1, Haiyue Road, Nantong, Jiangsu, 226000, China
 europe@luxensolar.at

www.luxensolar.com

MECHANICAL CHARACTERISTICS

Solar Cells	Mono
No. of Cells	144 (6x24)
Dimensions	2279 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 ²
Output Cables	300mm (+) / 300mm (-)
	Length can be customized
Connectors	Mc4 compatible
Mechanical load test	5400Pa



ELECTRICAL PARAMETERS

POWER CLASS	LNVU-530MB	LNVU-535MB	LNVU-540MB	LNVU-545MB	LNVU-550MB
	STC	STC	STC	STC	STC
Maximum power (Pmax)	530W	535W	540W	545W	550W
Open Circuit Voltage (Voc)	49.74V	49.89V	50.04V	50.18V	50.32V
Short Circuit Current (Isc)	13.62A	13.69A	13.76A	13.83A	13.90A
Voltage at Maximum power (Vmpp)	41.63V	41.80V	41.96V	42.12V	42.28V
Current Maximum Power (Impp)	12.73A	12.80A	12.87A	12.94A	13.01A
MODULE EFFICIENCY (%)	20.51%	20.70%	20.89%	21.09%	21.28%

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

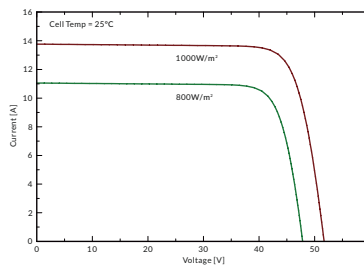
BIFACIAL OUTPUT-REAR SIDE POWER GAIN

		530W	535W	540W	545W	550W
5%	Maximum power (Pmax)	557W	562W	567W	572W	578W
	Module Efficiency STC (%)	21.53%	21.74%	21.94%	22.14%	22.35%
15%	Maximum power (Pmax)	610W	615W	621W	627W	633W
	Module Efficiency STC (%)	23.58%	23.81%	24.03%	24.25%	24.47%
25%	Maximum Power (Pmax)	663W	669W	675W	681W	688W
	Module Efficiency STC (%)	25.63%	25.88%	26.12%	26.36%	26.60%

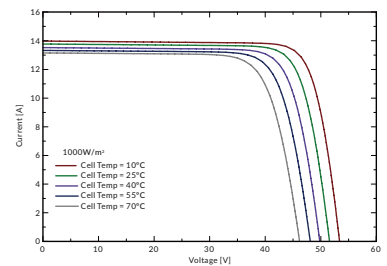
PACKING CONFIGURATION

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

I-V CURVE



LNVU-545MB/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.