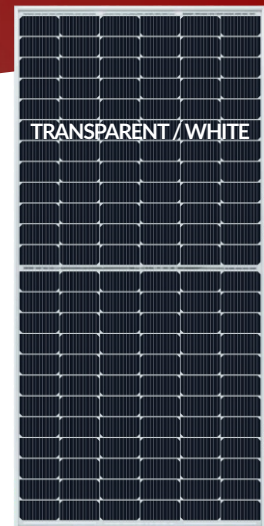


# LUXPOWER® SERIES 5

## 530-550W Mono BIFACIAL DG

144 Half-Cell Layout  
M10/182mm Cell



Bifacial Cell  
Module Technologies



Gallium-doped Technology



Half Cut Cell Technology



Anti-PID  
Low LID  
Performance

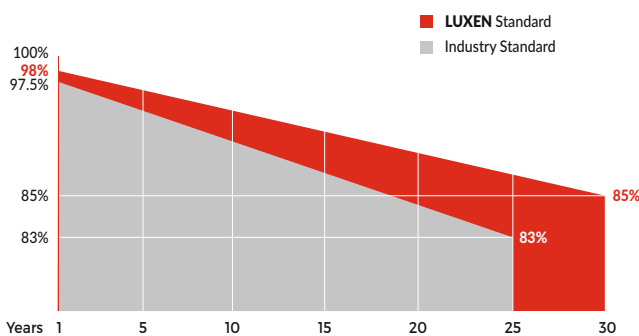


Less Hot Spot  
Shading Effects



Enduring High  
Reliability & Performance

### 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

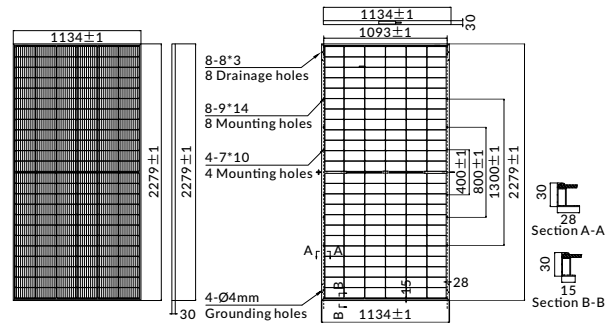
Production HQ: No.1, Haiyue Road, Nantong, Jiangsu, 226000, China

europa@luxensolar.at

www.luxensolar.com

MECHANICAL CHARACTERISTICS

Solar Cells	Mono
No. of Cells	144 (6x24)
Dimensions	2279 x 1134 x 30mm
Weight	31.5kg
Front Glass	2.0mm coated semi-tempered glass
Back Glass	2.0mm semi-tempered glass
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	LNVU-530MD		LNVU-535MD		LNVU-540MD		LNVU-545MD		LNVU-550MD	
	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT
Maximum power (Pmax)	530W	393W	535W	397W	540W	401W	545W	405W	550W	409W
Open Circuit Voltage (Voc)	49.74V	44.85V	49.89V	45.13V	50.04V	45.41V	50.18V	45.69V	50.32V	45.97V
Short Circuit Current (Isc)	13.62A	11.26A	13.69A	11.30A	13.76A	11.34A	13.83A	11.38A	13.90A	11.42A
Voltage at Maximum power (Vmpp)	41.63V	37.08V	41.80V	37.31V	41.96V	37.55V	42.12V	37.78V	42.28V	38.01V
Current Maximum Power (Impp)	12.73A	10.60A	12.80A	10.64A	12.87A	10.68A	12.94A	10.72A	13.01A	10.76A
MODULE EFFICIENCY (%)	20.52%		20.71%		20.90%		21.10%		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

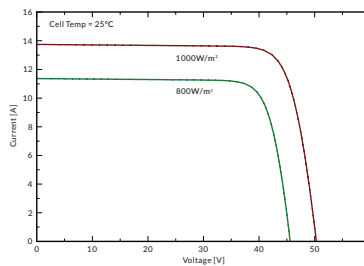
BIFACIAL OUTPUT-REAR SIDE POWER GAIN

		LNVU-530MD		LNVU-535MD		LNVU-540MD		LNVU-545MD		LNVU-550MD		
		5%	15%	25%	5%	15%	25%	5%	15%	25%	5%	15%
Maximum power (Pmax)	557W	610W	663W	562W	615W	669W	567W	621W	675W	572W	627W	681W
Module Efficiency STC (%)	21.54%	23.59%	25.65%	21.75%	23.82%	25.89%	21.95%	24.04%	26.13%	22.15%	24.26%	26.37%

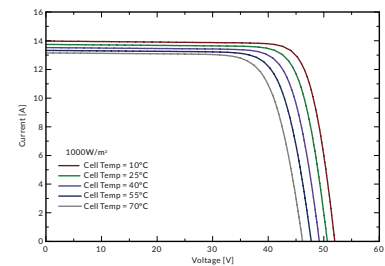
PACKING CONFIGURATION

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

I-V CURVE



LNVU-545MD/1-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	-0.32%/°C
Temperature Coefficient of Voc	-0.26%/°C
Temperature Coefficient of Isc	+0.046%/°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.