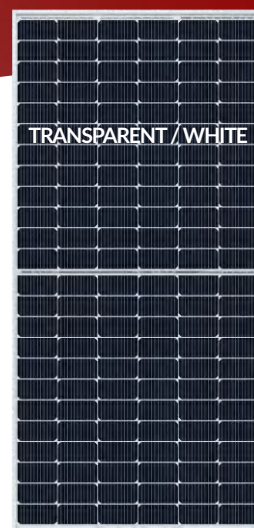


LUXPOWER® SERIES 5

535-555W 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

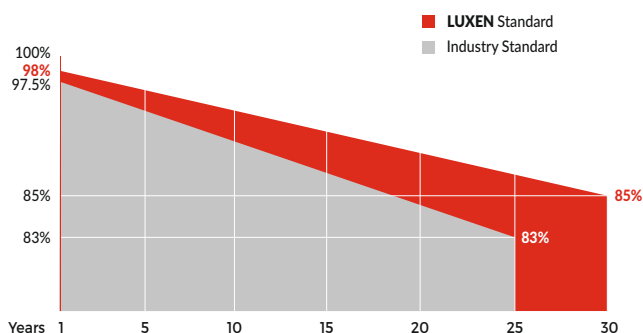


Less Hot Spot
Shading Effects



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.

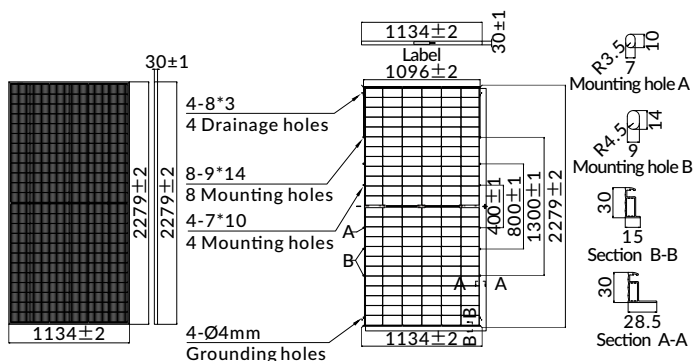
Product on HQ: No.1, Haiyue Road, Nantong, Jiangsu, 226000, China

T: +86 512 6708 1572 | F: +86 512 6708 1570 | ada.l@luxensolar.com

www.luxensolar.com

MECHANICAL CHARACTERISTICS

Solar Cells	Mono
No. of Cells	144 (6x24)
Dimensions	2279 x 1134 x 30mm
Weight	31.5kg
Front / Back Glass	2.0mm coated semi-tempered glass
Frame	Anodized aluminium alloy (reinforced high-load optional)
Junction Box	Ip68 rated (3 by pass diodes)
	4.0mm ²
Output Cables	250mm (+) / 350mm (-)
	Length can be customized
Connectors	Mc4 compatible
Mechanical load test	Front 5400Pa / Rear 2400Pa



ELECTRICAL PARAMETERS

POWER CLASS	LNVU-535MD		LNVU-540MD		LNVU-545MD		LNVU-550MD		LNVU-555MD	
	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT
Maximum power (Pmax)	535W	397W	540W	401W	545W	405W	550W	409W	555W	413W
Open Circuit Voltage (Voc)	49.89V	45.13V	50.04V	45.41V	50.18V	45.69V	50.32V	45.97V	50.47V	46.25V
Short Circuit Current (Isc)	13.69A	11.30A	13.76A	11.34A	13.83A	11.38A	13.90A	11.42A	13.97A	11.46A
Voltage at Maximum power (Vmpp)	41.80V	37.31V	41.96V	37.55V	42.12V	37.78V	42.28V	38.01V	42.43V	38.24V
Current Maximum Power (Impp)	12.80A	10.64A	12.87A	10.68A	12.94A	10.72A	13.01A	10.76A	13.08A	10.80A
MODULE EFFICIENCY (%)	20.71%		20.90%		21.10%		21.29%		21.48%	

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

NMOT:

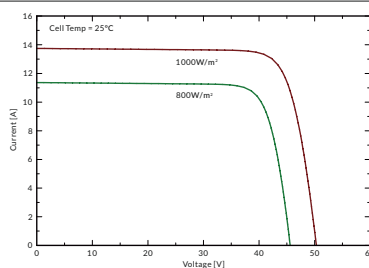
BIFACIAL OUTPUT-REAR SIDE POWER GAIN

5%	Maximum power (Pmax)	562W	567W	572W	578W	583W
	Module Efficiency STC (%)	21.75%	21.95%	22.15%	22.36%	22.56%
15%	Maximum power (Pmax)	615W	621W	627W	633W	638W
	Module Efficiency STC (%)	23.82%	24.04%	24.26%	24.48%	24.71%
25%	Maximum Power (Pmax)	669W	675W	681W	688W	694W
	Module Efficiency STC (%)	25.89%	26.13%	26.37%	26.61%	26.86%

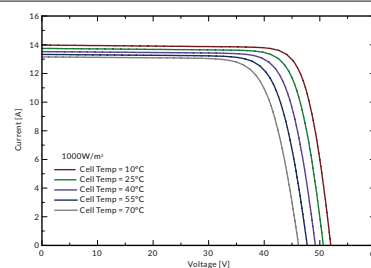
PACKING CONFIGURATION

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/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	-0.32%/°C
Temperature Coefficient of Voc	-0.26%/°C
Temperature Coefficient of Isc	+0.046%/°C

Note: The technical parameters included in this datasheet may have minor deviations, and Luxen does not guarantee absolute accuracy. Due to ongoing product innovation and enhancements, Luxen reserves the right to modify the information in this manual at any time without prior notice. Customers should obtain the latest version of the technical manual when signing the contract, and it shall be considered an integral part of the binding contract between the parties. Please note that qualified professionals should handle and install solar modules to ensure optimal module performance.