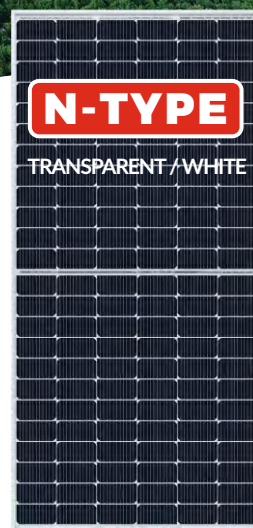


LUXPOWER® SERIES **N**5

570-590W Mono BIFACIAL DG

144 Half-Cell Layout
M10 N-TYPE Cell



LECO N-TYPE
Cell Technology



SMBB Half Cut
Cell Technology



Bifacial Cell
Module Technologies



Excellent
Anti-PID
Low LID
Performance

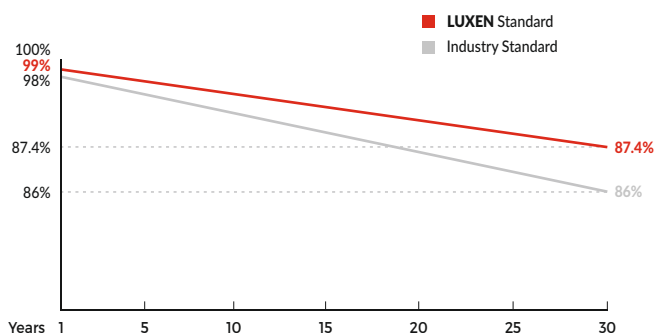


Less Hot Spot
Shading Effects



Higher Power Output
Lower BOS & LCOE

Linear Performance Warranty



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.

Production HQ: No.1, Haiyue Road, Nantong, Jiangsu, 226000, China
T: +86 512 6708 1572 | F: +86 512 6708 1570 | sales@luxensolar.com

www.luxensolar.com

Solar Cells	N-type Mono
No. of Cells	144 (6x24)
Dimensions	2278 x 1134 x 30mm
Weight	31.5kg
Front / Back Glass	2.0mm coated semi-tempered glass
Frame	Anodized aluminium alloy
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

The technical drawing illustrates the solar panel's dimensions and mounting features. The front view shows a rectangular panel with a width of 1134±2 mm and a height of 2278±2 mm. The side view shows a thickness of 30 mm. The panel is divided into a 6x24 grid of cells. Key dimensions include a top width of 1134±2 mm, a top height of 1096±2 mm, and a bottom height of 1300±1 mm. Mounting holes are specified as Ø7.5 (4 Drainage holes), Ø7.5 (4 Mounting holes), and Ø7.5 (4 Mounting holes). The junction box is located at the bottom center, with a width of 400±1 mm and a height of 800±1 mm. The output cables are 250mm (+) / 350mm (-) long. The panel is compatible with Mc4 connectors and has a mechanical load test rating of Front 5400Pa / Rear 2400Pa. The drawing also includes a detail of the mounting hole with a radius of R3.5 and a diameter of Ø7.5.

POWER CLASS	LNVU-570ND		LNVU-575ND		LNVU-580ND		LNVU-585ND		LNVU-590ND	
	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT
Maximum power (Pmax)	570W	429W	575W	433W	580W	437W	585W	441W	590W	445W
Open Circuit Voltage (Voc)	51.41V	48.69V	51.55V	48.82V	51.68V	48.96V	51.81V	49.09V	51.94V	49.23V
Short Circuit Current (Isc)	14.15A	11.41A	14.22A	11.47A	14.29A	11.53A	14.36A	11.59A	14.43A	11.65A
Voltage at Maximum power (Vmpp)	42.41V	39.36V	42.56V	39.51V	42.71V	39.66V	42.86V	39.80V	43.00V	39.95V
Current Maximum Power (Impp)	13.44A	10.90A	13.51A	10.96A	13.58A	11.02A	13.65A	11.08A	13.72A	11.14A
MODULE EFFICIENCY (%)	22.07%		22.26%		22.45%		22.65%		22.84%	

NMOT: Irradiance 800W/m², ambient temperature 20°C, wind speed 1m/s, AM1.5G

5%	Maximum power (Pmax)	599W	604W	609W	614W	620W
	Module Efficiency STC (%)	23.17%	23.37%	23.57%	23.78%	23.98%
15%	Maximum power (Pmax)	656W	661W	667W	673W	679W
	Module Efficiency STC (%)	25.37%	25.60%	25.82%	26.04%	26.27%
25%	Maximum Power (Pmax)	713W	719W	725W	731W	738W
	Module Efficiency STC (%)	27.58%	27.82%	28.07%	28.31%	28.55%

Container	20'GP	40'HQ
Pieces per pallet	37	37
Pallets per container	5	20
Pieces per container	185	740

Operating Module Temperature	-40°C to +85°C
Maximum System Voltage	1500 DC (IEC)
Maximum Series Fuse Rating	30A
Power Tolerance	0/+5W

Nominal Operating Temperature (NMOT)	45±2°C
Temperature Coefficient of Pmax	-0.29%/°C
Temperature Coefficient of Voc	-0.25%/°C
Temperature Coefficient of Isc	+0.045%/°C

