

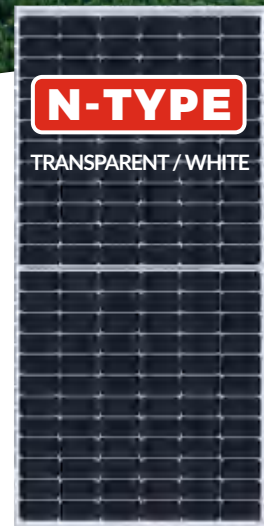
# LUXPOWER® SERIES **N**5



# 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

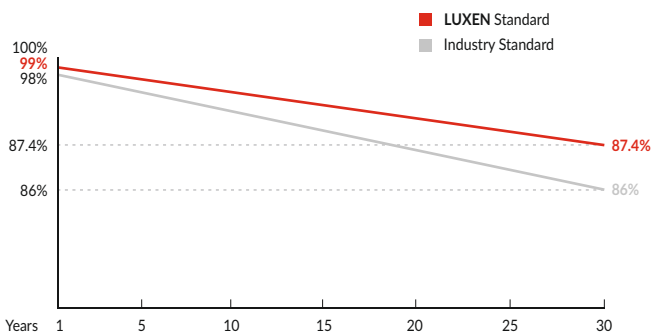


Less Hot Spot Shading Effects



Higher Power Output Lower BOS & LCOE

### Linear Performance Warranty



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### Insured By



### Comprehensive Certificates

- ISO9001:2015 QMS
- ISO14001:2015 EMS
- ISO45001:2018 OHSMS
- IEC61215:2021 / IEC61730:2023 Standard Quality



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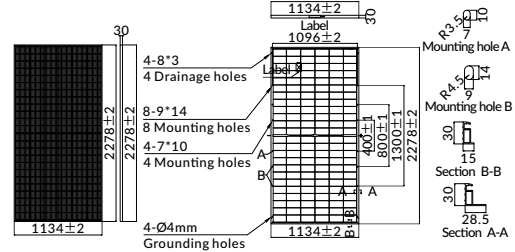
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Made in China

MECHANICAL CHARACTERISTICS

Solar Cells	N-TYPE Mono
No. of Cells	144 (6x24)
Dimensions	2278 x 1134 x 30mm
Weight	31.5kgs
Front/Black 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 <sup>2</sup>
Output Cables	250mm (+) / 350mm (-)
	Length can be customized
Connectors	Jiangsu Tonglin Electric Co., Ltd
	TL-CABLE01S Pro
Mechanical load test	Front 5400Pa / Rear 2400Pa
PV Module Fire Class	Fire safety class according to UL790: Class A



ELECTRICAL PARAMETERS

POWER CLASS	LNVU-570ND		LNVU-575ND		LNVU-580ND		LNVU-585ND		LNVU-590ND	
	STC	BNPI	STC	BNPI	STC	BNPI	STC	BNPI	STC	BNPI
Maximum power (Pmax)±3%	570W	632W	575W	637W	580W	643W	585W	648W	590W	654W
Open Circuit Voltage (Voc)±5%	51.41V	51.60V	51.55V	51.73V	51.68V	51.86V	51.81V	52.00V	51.94V	52.13V
Short Circuit Current (Isc)±5%	14.15A	15.62A	14.22A	15.70A	14.29A	15.78A	14.36A	15.85A	14.43A	15.93A
Voltage at Maximum power (Vmpp)	42.41V		42.56V		42.71V		42.86V		43.00V	
Current Maximum Power (Impp)	13.44A		13.51A		13.58A		13.65A		13.72A	
MODULE EFFICIENCY (%)	22.07%		22.26%		22.45%		22.65%		22.84%	

STC: Irradiance 1000W/m<sup>2</sup>, cell temperature 25°C, AM1.5G BNPI: The front irradiance is 1000W/m<sup>2</sup>, the back irradiance is 135W/m<sup>2</sup>, cell temperature is 25°C, AM1.5G

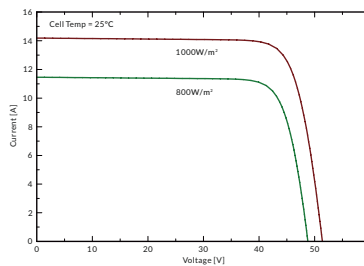
BIFACIAL OUTPUT-REAR SIDE POWER GAIN

		LNVU-570ND	LNVU-575ND	LNVU-580ND	LNVU-585ND	LNVU-590ND
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%

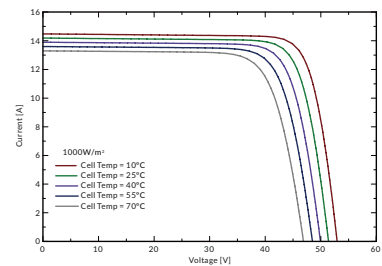
PACKING CONFIGURATION

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

I-V CURVE



LNVU-575ND/I-V



OPERATING CHARACTERISTICS

Operating Module Temperature	-40°C to +85°C
Maximum System Voltage	1500 DC (IEC)
Maximum Series Fuse Rating	30A
Power Tolerance	0 ~+3%

BIFACIALITY COEFFICIENT

φVoc / Tolerance ±5%	99%
φIsc / Tolerance ±10%	80%
φPmax / Tolerance ±10%	80%

TEMPERATURE CHARACTERISTICS

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

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.