LUXEN SOLAR

Quality Maker

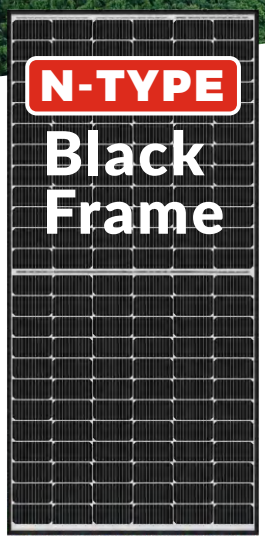
LUXPOWER® SERIES N5

Tier 1 BloombergNEF | 30 years POWER WARRANTY | *Up to 20 years PRODUCT WARRANTY

570-590W Mono

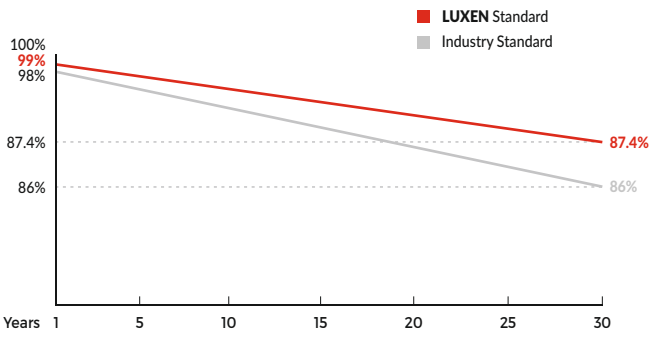
144 Half-Cell Layout

M10 N-TYPE Cell



- LECO N-TYPE Cell Technology
- Half Cut Cell Technology
- SMBB Technology
- Excellent Anti-PID Low LID Performance
- Less Hot Spot Shading Effects
- Higher Power Output Lower BOS & LCOE

Linear Performance Warranty



* LUXEN N-TYPE: Standard warranty 15 years, can be extended up to 20 years.

Insured By

China Continent Insurance | Ariel Re | LLOYD'S Underwriters | PICC

Comprehensive Certificates

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

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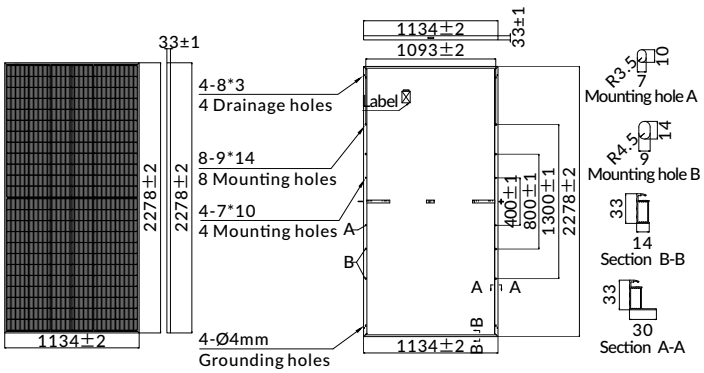
LUXPOWER® Mono I 570 - 590W

Quality Maker

MECHANICAL CHARACTERISTICS

Solar Cells	N-type Mono
No. of Cells	144 (6x24)
Dimensions	2278 x 1134 x 33mm
Weight	27.3kg
Front Glass	3.2mm coated tempered glass
Frame	Anodized aluminium alloy (reinforced high-load optional)
Junction Box	Ip68 rated (3 by pass diodes)
Output Cables	4.0mm²
	250mm (+) / 350mm (-)
	Length can be customized
Connectors	Mc4 compatible
Mechanical load test	Front 5400Pa / Rear 2400Pa



ELECTRICAL PARAMETERS

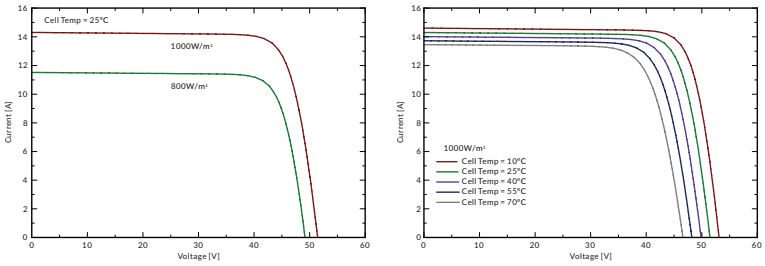
POWER CLASS	LNVU-570N		LNVU-575N		LNVU-580N		LNVU-585N		LNVU-590N	
	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT
Maximum power (Pmax)	570W	429W	575W	433W	580W	437W	585W	441W	590W	445W
Open Circuit Voltage (Voc)	51.30V	48.78V	51.44V	48.96V	51.57V	49.14V	51.70V	49.31V	51.83V	49.49V
Short Circuit Current (Isc)	14.19A	11.45A	14.26A	11.51A	14.33A	11.57A	14.40A	11.63A	14.47A	11.69A
Voltage at Maximum power (Vmpp)	42.79V	39.61V	42.94V	39.76V	43.09V	39.91V	43.24V	40.05V	43.38V	40.20V
Current Maximum Power (Impp)	13.32A	10.83A	13.39A	10.89A	13.46A	10.95A	13.53A	11.01A	13.60A	11.07A
MODULE EFFICIENCY (%)	22.06%		22.25%		22.44%		22.64%		22.83%	

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

PACKING CONFIGURATION

Container	40'HQ
Pieces per pallet	34
Pallets per container	20
Pieces per container	680

I-V CURVE LNVU-580N/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	-0.29%°C
Temperature Coefficient of Voc	-0.25%°C
Temperature Coefficient of Isc	+0.045%°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.

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