LUXEN SOLAR

Quality Maker

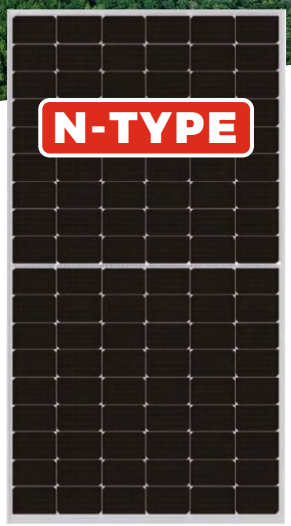
LUXPOWER® SERIES N5

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

420-440W Mono

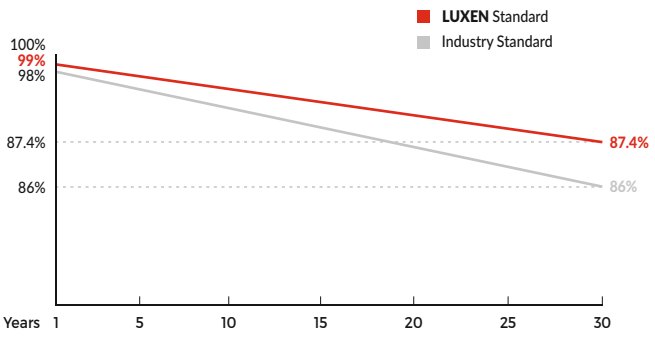
108 Half-Cell Layout

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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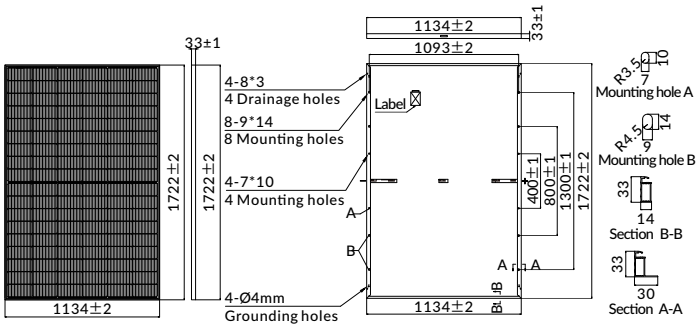
LUXPOWER® Mono I 420 - 440W

Quality Maker

MECHANICAL CHARACTERISTICS

Solar Cells	N-type Mono
No. of Cells	108 (6x18)
Dimensions	1722 x 1134 x 33mm
Weight	20.8kg
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	LNVB-420N		LNVB-425N		LNVB-430N		LNVB-435N		LNVB-440N	
	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT
Maximum power (Pmax)	420W	315W	425W	319W	430W	323W	435W	327W	440W	331W
Open Circuit Voltage (Voc)	38.57V	36.74V	38.81V	36.95V	39.04V	37.15V	39.27V	37.35V	39.50V	37.54V
Short Circuit Current (Isc)	13.96A	11.24A	14.03A	11.30A	14.10A	11.36A	14.17A	11.42A	14.24A	11.48A
Voltage at Maximum power (Vmpp)	32.23V	29.66V	32.44V	29.87V	32.65V	30.07V	32.85V	30.28V	33.06V	30.48V
Current Maximum Power (Impp)	13.03A	10.62A	13.10A	10.68A	13.17A	10.74A	13.24A	10.80A	13.31A	10.86A
MODULE EFFICIENCY (%)	21.51%		21.76%		22.02%		22.28%		22.53%	

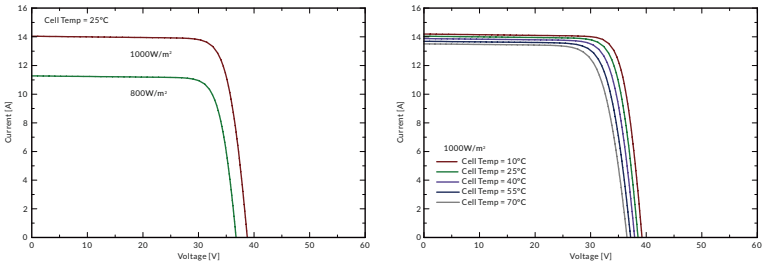
STC: Irradiance 1000W/m², cell temperature 25°C, AM1.5G **NMOT:** Irradiance 800W/m², ambient temperature 20°C, wind speed 1m/s, AM1.5G

PACKING CONFIGURATION

Container	40'HQ
Pieces per pallet	34
Pallets per container	26
Pieces per container	884

I-V CURVE

LNVB-425N/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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