LUXEN SOLAR

Quality Maker

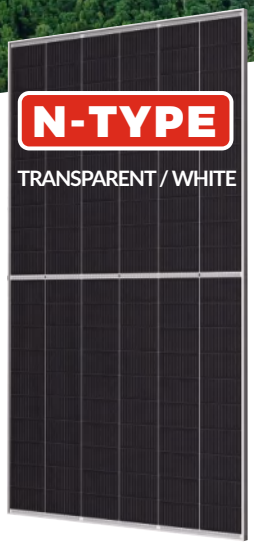
LUXPOWER® SERIES N6

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

620-640W Mono BIFACIAL DG

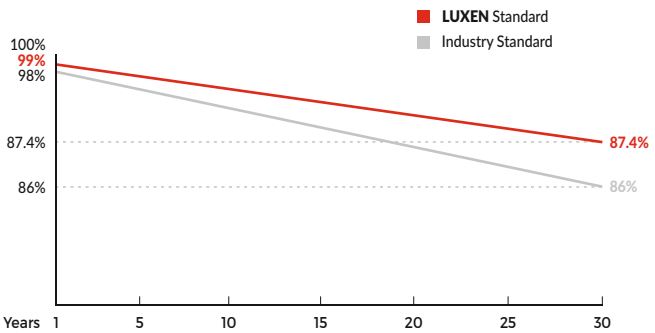
120 Half-Cell Layout

G12/210mm 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



* 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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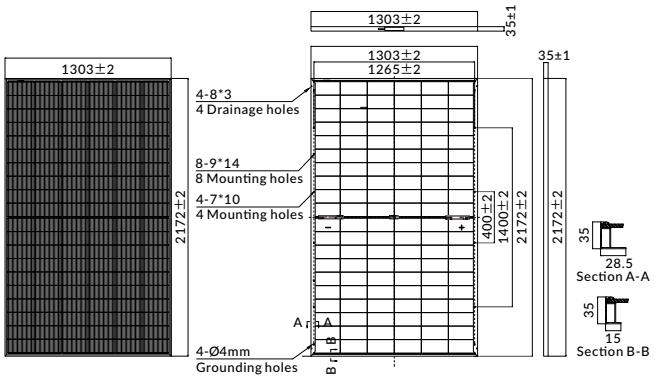
LUXPOWER® Mono I 620 - 640W BIFACIAL DG

Quality Maker

MECHANICAL CHARACTERISTICS

Solar Cells		N-type Mono
No. of Cells		120 (6x20)
Dimensions		2172 x 1303 x 35mm
Weight		35.0kg
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)
Output Cables		4.0mm²
		250mm (+) / 350mm (-)
		Length can be customized
Connectors		Mc4 compatible
Mechanical load test		Front 5400Pa / Rear 2400Pa



ELECTRICAL PARAMETERS

POWER CLASS	LNEK-620ND		LNEK-625ND		LNEK-630ND		LNEK-635ND		LNEK-640ND	
	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT
Maximum power (Pmax)	620W	472W	625W	476W	630W	480W	635W	484W	640W	488W
Open Circuit Voltage (Voc)	43.75V	41.13V	43.96V	41.33V	44.16V	41.52V	44.37V	41.71V	44.57V	41.90V
Short Circuit Current (Isc)	18.16A	14.72A	18.20A	14.76A	18.24A	14.80A	18.28A	14.84A	18.32A	14.88A
Voltage at Maximum power (Vmpp)	36.21V	33.98V	36.44V	34.20V	36.67V	34.41V	36.90V	34.62V	37.12V	34.83V
Current Maximum Power (Impp)	17.12A	13.89A	17.15A	13.92A	17.18A	13.95A	17.21A	13.98A	17.24A	14.01A
MODULE EFFICIENCY (%)	21.91%		22.08%		22.26%		22.44%		22.61%	

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

BIFACIAL OUTPUT-REARSIDE POWER GAIN

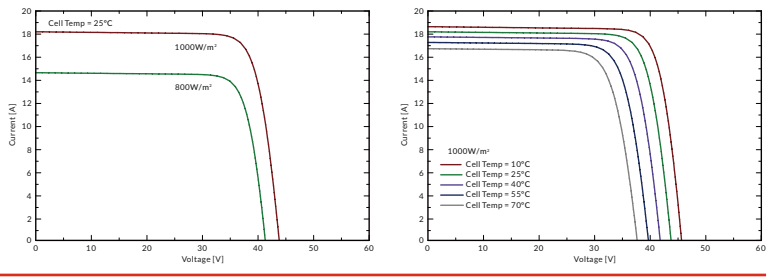
5%	Maximum power (Pmax)	651W	656W	662W	667W	672W
	Module Efficiency STC (%)	23.00%	23.19%	23.37%	23.56%	23.74%
15%	Maximum power (Pmax)	713W	719W	725W	730W	736W
	Module Efficiency STC (%)	25.19%	25.40%	25.60%	25.80%	26.01%
25%	Maximum Power (Pmax)	775W	781W	788W	794W	800W
	Module Efficiency STC (%)	27.38%	27.60%	27.83%	28.05%	28.27%

PACKING CONFIGURATION

Container	40'HQ
Pieces per pallet	32
Pallets per container	18
Pieces per container	576

I-V CURVE

LNEK-625ND/I-V



OPERATING CHARACTERISTICS

Operating Module Temperature	-40°C to +85°C
Maximum System Voltage	1500 DC (IEC)
Maximum Series Fuse Rating	35A
Power Tolerance	0/+5W

TEMPERATURE CHARACTERISTICS

Nominal Operating Temperature (NMOT)	45±2°C
Temperature Coefficient of Pmax	-0.30%°C
Temperature Coefficient of Voc	-0.24%°C
Temperature Coefficient of Isc	+0.04%°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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