LUXEN SOLAR

Quality Maker



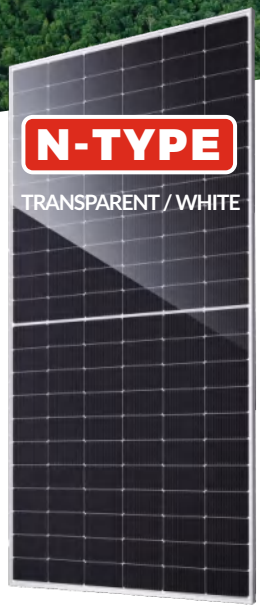
LUXPOWER® SERIES N5

Tier 1 BloombergNEF | 30 years POWER WARRANTY | *15 years PRODUCT WARRANTY

615-630W Mono BIFACIAL DG

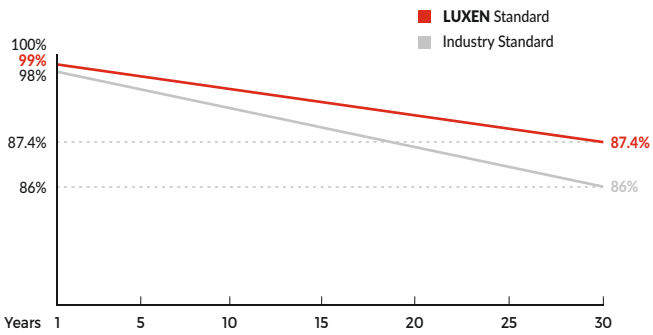
132 Half-Cell Layout

G12R 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 | Aviel 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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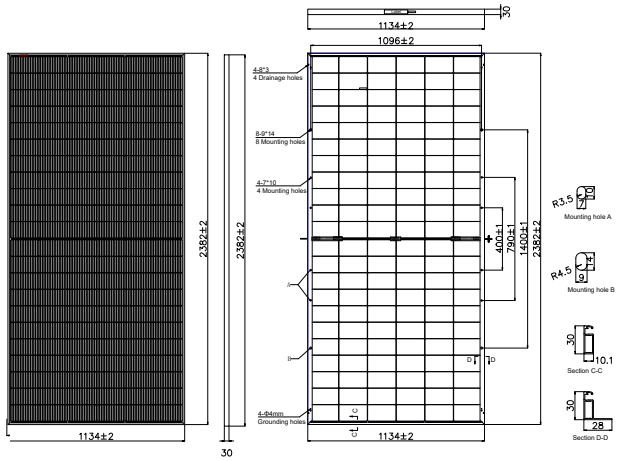
www.luxensolar.com

LUXPOWER® Mono I 615 - 635W BIFACIAL DG

Quality Maker

MECHANICAL CHARACTERISTICS

Solar Cells	N-type Mono
No. of Cells	132 (6x22)
Dimensions	2382 x 1134 x 30mm
Weight	32.3kg
Front / Back Glass	2.0mm coated semi-tempered glass
Frame	Anodized aluminium alloy
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	LNDT-615ND		LNDT-620ND		LNDT-625ND		LNDT-630ND	
	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT
Maximum power (Pmax)	615W	462W	620W	466W	625W	470W	630W	474W
Open Circuit Voltage (Voc)	49.13V	46.12V	49.32V	46.33V	49.50V	46.54V	49.68V	46.75V
Short Circuit Current (Isc)	15.86A	12.69A	15.92A	12.74A	15.98A	12.78A	16.04A	12.83A
Voltage at Maximum power (Vmpp)	41.16V	38.65V	41.33V	38.83V	41.50V	39.01V	41.64V	39.20V
Current Maximum Power (Impp)	14.94A	11.95A	15.00A	12.00A	15.06A	12.05A	15.13A	12.09A
MODULE EFFICIENCY (%)	22.77%		22.95%		23.14%		23.32%	

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

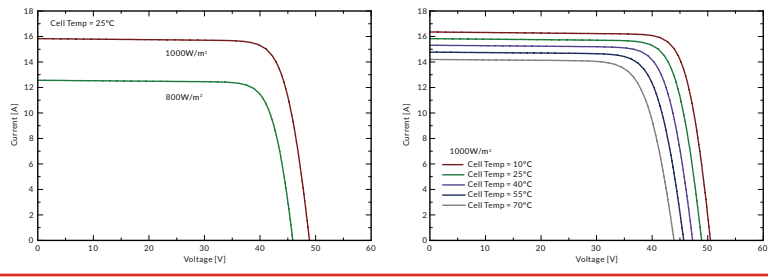
5%	Maximum power (Pmax)	646W	651W	656W	662W
	Module Efficiency STC (%)	23.91%	24.10%	24.29%	24.49%
15%	Maximum power (Pmax)	707W	713W	719W	725W
	Module Efficiency STC (%)	26.18%	26.40%	26.61%	26.82%
25%	Maximum Power (Pmax)	769W	775W	781W	788W
	Module Efficiency STC (%)	28.46%	28.69%	28.92%	29.15%

PACKING CONFIGURATION

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

I-V CURVE

LNDT-630ND/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/+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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