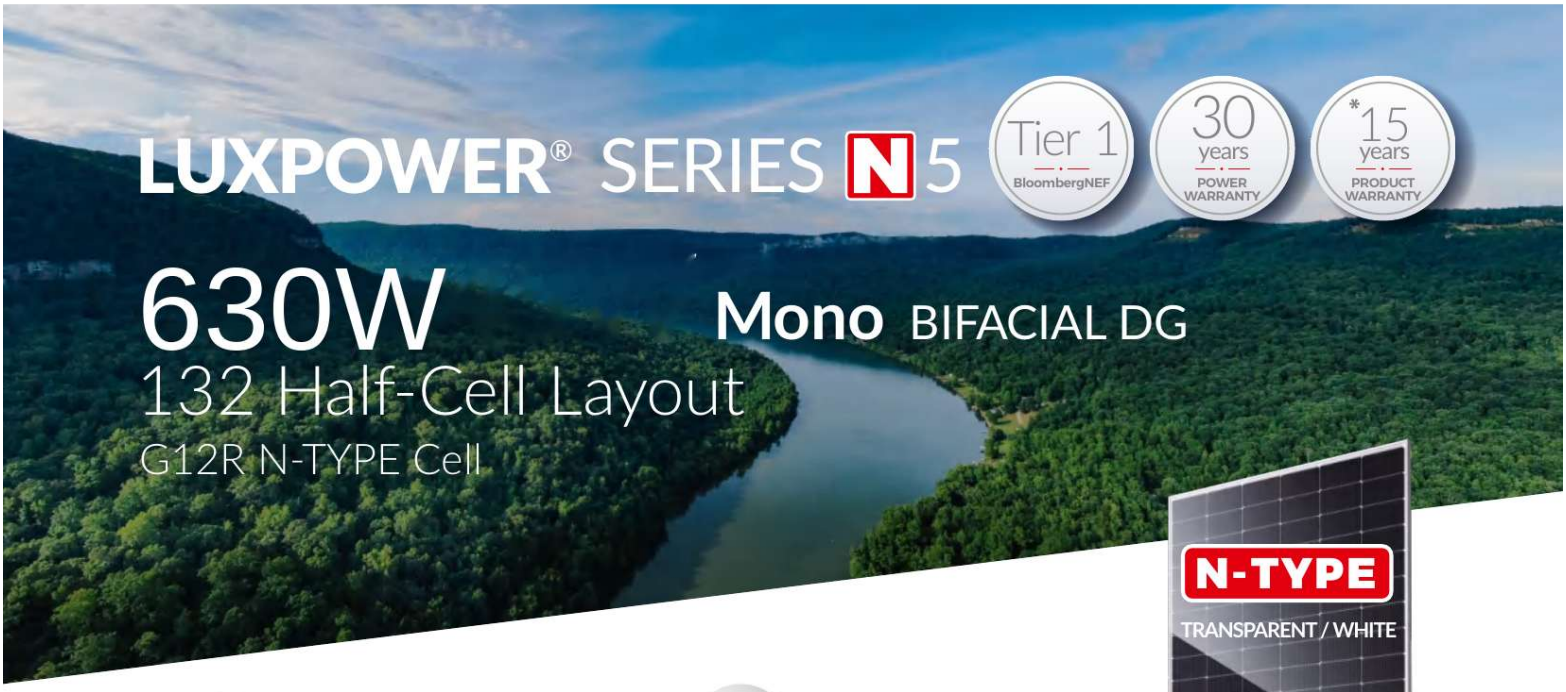
LUXEN SOLAR

Quality Maker



LUXPOWER® SERIES N5

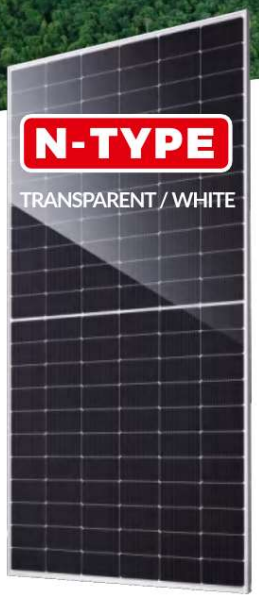
Tier 1 BloombergNEF | 30 years POWER WARRANTY | *15 years PRODUCT WARRANTY

630W

132 Half-Cell Layout

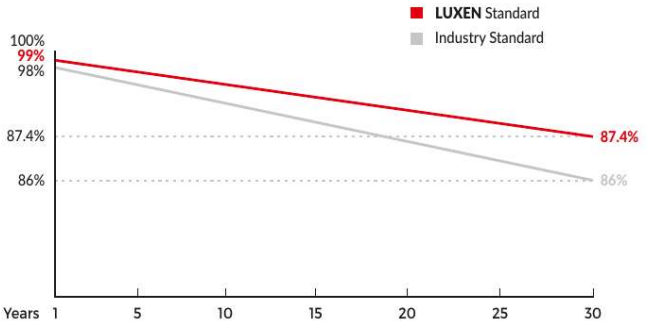
G12R N-TYPE Cell

Mono BIFACIAL DG



- 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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T: +86 512 6708 1572 **I F:** +86 512 6708 1570 **I** sales@luxensolar.com

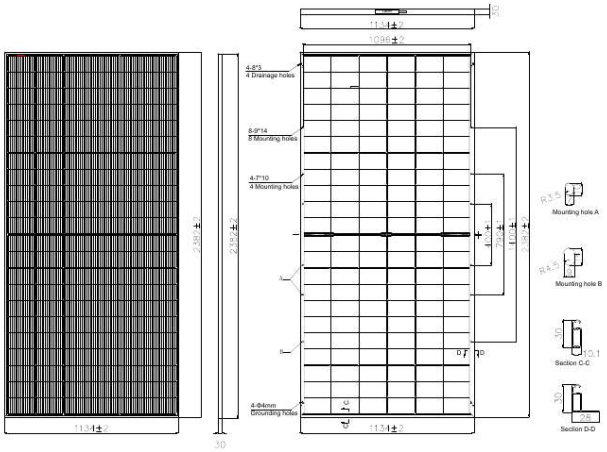
www.luxensolar.com

LUXPOWER® Mono I 620 - 645W BIFACIAL DG

Quality Maker

MECHANICAL CHARACTERISTICS

Solar Cells	N-type Mono
No. of Cells	132 (6x22)
Dimensions	2382 x 1134 x 30mm
Weight	33.5kg
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-620ND		LNDT-625ND		LNDT-630ND		LNDT-635ND		LNDT-640ND		LNDT-645ND	
	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT
Maximum power (Pmax)	620W	466W	625W	470W	630W	474W	635W	478W	640W	482W	645W	486W
Open Circuit Voltage (Voc)	49.32V	46.33V	49.50V	46.54V	49.68V	46.75V	49.86V	46.96V	50.04V	47.17V	50.22V	47.38V
Short Circuit Current (Isc)	15.92A	12.74A	15.98A	12.78A	16.04A	12.83A	16.10A	12.88A	16.16A	12.93A	16.22A	12.98A
Voltage at Maximum power (Vmpp)	41.33V	38.83V	41.50V	39.01V	4164V	39.19V	41.78V	39.37V	41.91V	39.55V	42.05V	39.73V
Current Maximum Power (Impp)	15.00A	12.00A	15.06A	12.05A	15.13A	12.09A	15.20A	12.13A	15.27A	12.17A	15.34A	12.21A
MODULE EFFICIENCY (%)	22.95%		23.14%		23.32%		23.51%		23.69%		23.88%	

STC: Irradiance 1000W/m², cell temperature 25°C, AM1.5G

BIFACIAL OUTPUT-REARSIDE POWER GAIN

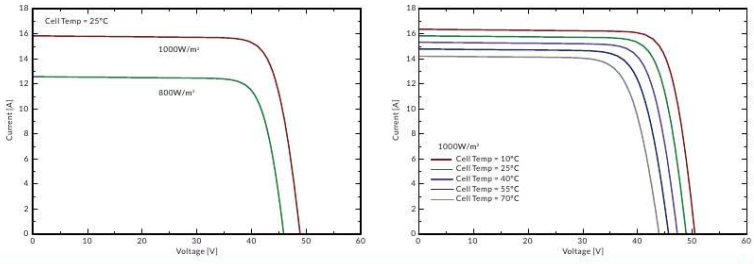
5%	Maximum power (Pmax)	651W	656W	662W	667W	672W	677W
	Module Efficiency STC (%)	24.10%	24.29%	24.49%	24.68%	24.88%	25.07%
15%	Maximum power (Pmax)	713W	719W	725W	730W	736W	742W
	Module Efficiency STC (%)	26.40%	26.61%	26.82%	27.03%	27.25%	27.46%
25%	Maximum Power (Pmax)	775W	781W	788W	794W	800W	806W
	Module Efficiency STC (%)	28.69%	28.92%	29.15%	29.39%	29.62%	29.85%

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.

LUXEN SOLAR