

LUXPOWER® SERIES **N**5



625-650W 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

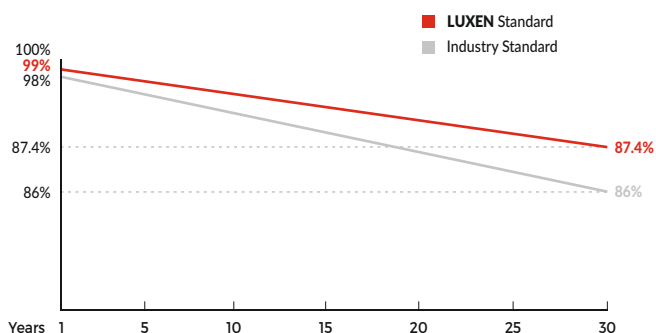


Less Hot Spot
Shading Effects



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



Comprehensive Certificates

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



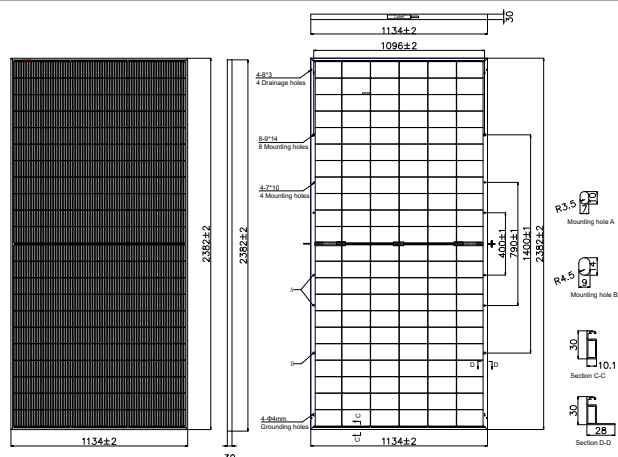
LUXEN SOLAR ENERGY CO., LTD.

Product on HQ: No.1, Haiyue Road, Nantong, Jiangsu, 226000, China
T: +86 512 6708 1572 | F: +86 512 6708 1570 | ada.l@luxensolar.com

www.luxensolar.com

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)
	4.0mm ²
Output Cables	250mm (+) / 350mm (-)
	Length can be customized
Connectors	Mc4 compatible
Mechanical load test	Front 5400Pa / Rear 2400Pa



ELECTRICAL PARAMETERS

POWER CLASS	LNDT-625ND		LNDT-630ND		LNDT-635ND		LNDT-640ND		LNDT-645ND		LNDT-650ND	
	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT
Maximum power (Pmax)	625W	470W	630W	474W	635W	478W	640W	482W	645W	486W	650W	490W
Open Circuit Voltage (Voc)	49.50V	46.54V	49.68V	46.75V	49.86V	46.96V	50.04V	47.17V	50.22V	47.38V	50.40V	47.60V
Short Circuit Current (Isc)	15.98A	12.78A	16.04A	12.83A	16.10A	12.88A	16.16A	12.93A	16.22A	12.98A	16.28A	13.03A
Voltage at Maximum power (Vmpp)	41.50V	39.01V	41.64V	39.20V	41.78V	39.37V	41.91V	39.55V	42.05V	39.74V	42.18V	39.93V
Current Maximum Power (Impp)	15.06A	12.05A	15.13A	12.09A	15.20A	12.14A	15.27A	12.19A	15.34A	12.23A	15.41A	12.27A
MODULE EFFICIENCY (%)	23.14%		23.32%		23.51%		23.69%		23.88%		24.06%	

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

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

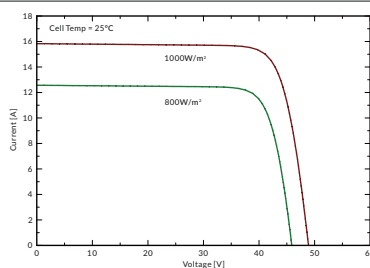
BIFACIAL OUTPUT-REARSIDE POWER GAIN

5%	Maximum power (Pmax)	656W	662W	667W	672W	677W	683W
	Module Efficiency STC (%)	24.29%	24.49%	24.68%	24.88%	25.07%	25.27%
15%	Maximum power (Pmax)	719W	725W	730W	736W	742W	748W
	Module Efficiency STC (%)	26.61%	26.82%	27.03%	27.25%	27.46%	27.67%
25%	Maximum Power (Pmax)	781W	788W	794W	800W	806W	813W
	Module Efficiency STC (%)	28.92%	29.15%	29.39%	29.62%	29.85%	30.08%

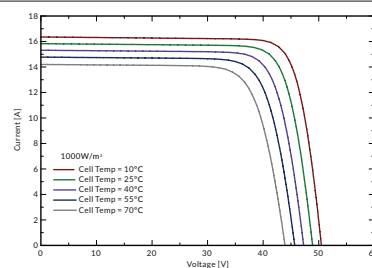
PACKING CONFIGURATION

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.