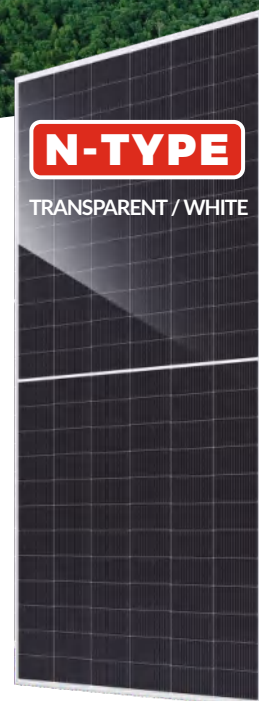


LUXPOWER® SERIES **N**5



620-640W Mono BIFACIAL DG

144 Half-Cell Layout
M10R N-TYPE Cell



LECO N-TYPE
Cell Technology



SMBB Half Cut
Cell Technology



Bifacial Cell
Module Technologies



Excellent
Anti-PID
Low LID
Performance

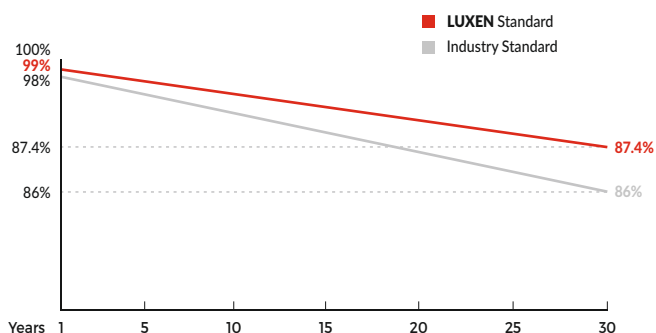


Less Hot Spot
Shading Effects



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



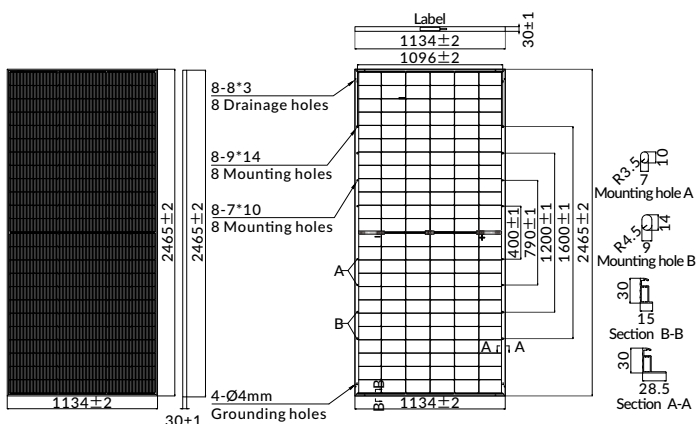
LUXEN SOLAR ENERGY CO., LTD.

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MECHANICAL CHARACTERISTICS

Solar Cells	N-type Mono
No. of Cells	144 (6x24)
Dimensions	2465 x 1134 x 30mm
Weight	34.5kg
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)
	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	LNCU-620ND		LNCU-625ND		LNCU-630ND		LNCU-635ND		LNCU-640ND	
	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT
Maximum power (Pmax)	620W	467W	625W	471W	630W	475W	635W	479W	640W	483W
Open Circuit Voltage (Voc)	51.65V	48.68V	51.84V	48.88V	52.03V	49.08V	52.22V	49.28V	52.41V	49.48V
Short Circuit Current (Isc)	15.12A	12.10A	15.18A	12.14A	15.24A	12.19A	15.30A	12.24A	15.36A	12.29A
Voltage at Maximum power (Vmpp)	43.51V	40.96V	43.68V	41.14V	43.84V	41.32V	44.01V	41.49V	44.17V	41.67V
Current Maximum Power (Impp)	14.25A	11.40A	14.31A	11.45A	14.37A	11.50A	14.43A	11.54A	14.49A	11.59A
MODULE EFFICIENCY (%)	22.18%		22.36%		22.54%		22.72%		22.90%	

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

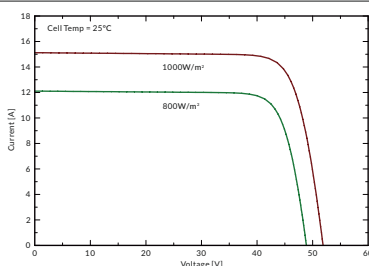
BIFACIAL OUTPUT-REAR SIDE POWER GAIN

5%	Maximum power (Pmax)	651W	656W	662W	667W	672W
	Module Efficiency STC (%)	23.29%	23.48%	23.66%	23.85%	24.04%
15%	Maximum power (Pmax)	713W	719W	725W	730W	736W
	Module Efficiency STC (%)	25.51%	25.71%	25.92%	26.12%	26.33%
25%	Maximum Power (Pmax)	775W	781W	788W	794W	800W
	Module Efficiency STC (%)	27.73%	27.95%	28.17%	28.40%	28.62%

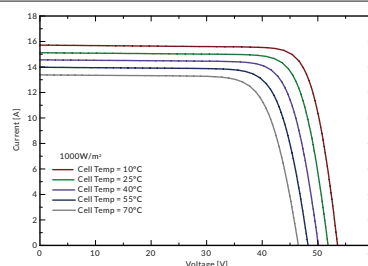
PACKING CONFIGURATION

Container	40'HQ
Pieces per pallet	36
Pallets per container	16
Pieces per container	576

I-V CURVE



LNCU-625ND/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.