

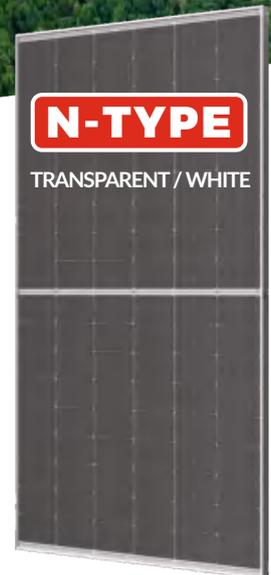
# LUXPOWER® SERIES **N**5



# 490-510W Mono BIFACIAL DG

## 108 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

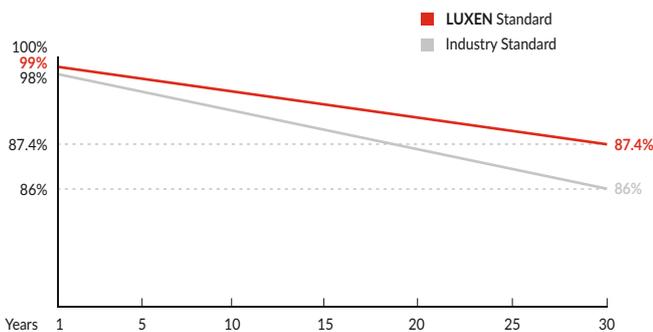


Less Hot Spot Shading Effects



Higher Power Output Lower BOS & LCOE

### Linear Performance Warranty



### Insured By



### Comprehensive Certificates

- ISO9001:2015 QMS
- ISO14001:2015 EMS
- ISO45001:2018 OHSMS
- IEC61215:2021 / IEC61730:2023 Standard Quality



LUXEN SOLAR ENERGY CO., LTD.

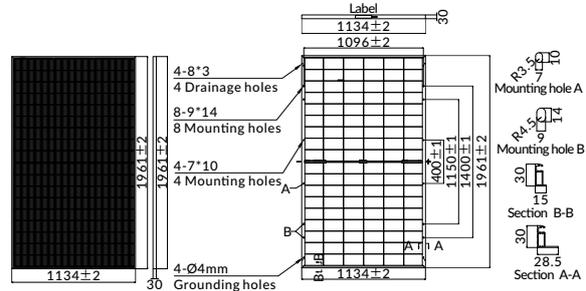
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Made in China

MECHANICAL CHARACTERISTICS

Solar Cells	N-TYPE Mono
No. of Cells	108 (6x18)
Dimensions	1961 x 1134 x 30mm
Weight	27.5kgs
Front/Black 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 <sup>2</sup>
Output Cables	250mm (+) / 350mm (-)
	Length can be customized
Connectors	Jiangsu Tonglin Electric Co., Ltd
	TL-CABLE01S Pro
Mechanical load test	Front 5400Pa / Rear 2400Pa
PV Module Fire Class	Fire safety class according to UL790: Class A



ELECTRICAL PARAMETERS

POWER CLASS	LNDB-490ND		LNDB-495ND		LNDB-500ND		LNDB-505ND		LNDB-510ND	
	STC	BNPI								
Maximum power (Pmax)±3%	490W	543W	495W	548W	500W	554W	505W	560W	510W	565W
Open Circuit Voltage (Voc)±5%	39.55V	39.69V	39.78V	39.92V	40.00V	40.14V	40.22V	40.37V	40.44V	40.59V
Short Circuit Current (Isc)±5%	15.72A	17.35A	15.78A	17.42A	15.84A	17.49A	15.90A	17.55A	15.96A	17.62A
Voltage at Maximum power (Vmpp)	33.11V		33.31V		33.51V		33.71V		33.91V	
Current Maximum Power (Impp)	14.80A		14.86A		14.92A		14.98A		15.04A	
MODULE EFFICIENCY (%)	22.03%		22.26%		22.48%		22.71%		22.93%	

STC: Irradiance 1000W/m<sup>2</sup>, cell temperature 25°C, AM1.5G BNPI: The front irradiance is 1000W/m<sup>2</sup>, the back irradiance is 135W/m<sup>2</sup>, cell temperature is 25°C, AM1.5G

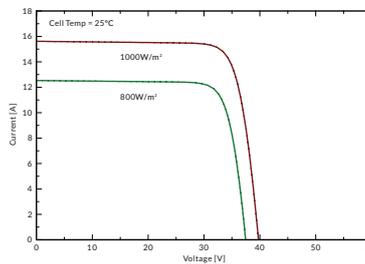
BIFACIAL OUTPUT-REARSIDE POWER GAIN

		LNDB-490ND	LNDB-495ND	LNDB-500ND	LNDB-505ND	LNDB-510ND
5%	Maximum power (Pmax)	515W	520W	525W	530W	536W
	Module Efficiency STC (%)	23.14%	23.37%	23.61%	23.84%	24.08%
15%	Maximum power (Pmax)	564W	569W	575W	581W	587W
	Module Efficiency STC (%)	25.34%	25.60%	25.86%	26.12%	26.37%
25%	Maximum Power (Pmax)	613W	619W	625W	631W	638W
	Module Efficiency STC (%)	27.54%	27.82%	28.11%	28.39%	28.67%

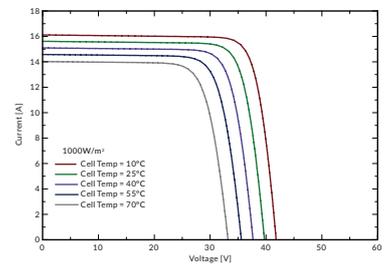
PACKING CONFIGURATION

Container	40'HQ
Pieces per pallet	36
Pallets per container	26
Pieces per container	864

I-V CURVE



LNDB-495ND/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 ~+3%

BIFACIALITY COEFFICIENT

φVoc / Tolerance ±5%	99%
φIsc / Tolerance ±10%	80%
φPmax / Tolerance ±10%	80%

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 specifications, data and technical characteristics provided in this data sheet are subject to changes due to continuous R&D, product innovation and improvement. LUXEN SOLAR reserves the right to modify the information any time without prior notice.