LUXEN SOLAR

Quality Maker

LUXPOWER® SERIES N5

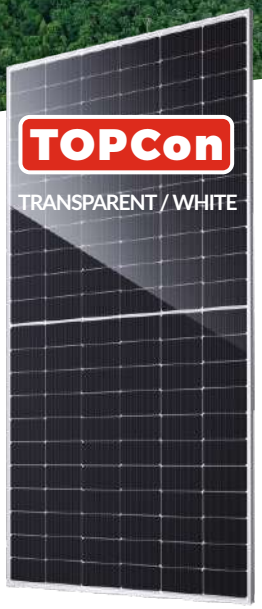
30 years POWER WARRANTY

*Up to 20 years PRODUCT WARRANTY

565-585W Mono BIFACIAL DG

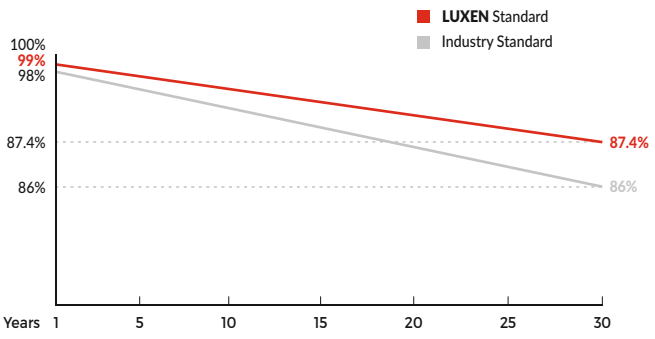
132 Half-Cell Layout

M10R N-TOPCon Cell



- LECO N-TOPCon 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 TOPCon: 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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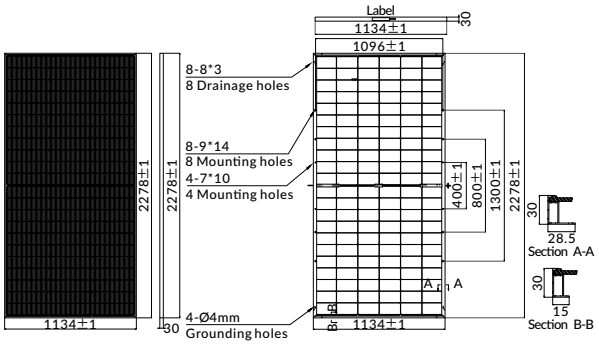
LUXPOWER® Mono I 565 - 585W BIFACIAL DG

Quality Maker

MECHANICAL CHARACTERISTICS

Solar Cells		N-type Mono
No. of Cells		132 (6x22)
Dimensions		2278 x 1134 x 30mm
Weight		31.5kg
Front Glass		2.0mm coated semi-tempered glass
Back Glass		2.0mm semi-tempered glass
Junction Box		Ip68 rated (3 by pass diodes)
Output Cables		4.0mm²
		280mm (+) / 350mm (-)
		Length can be customized
Connectors		Mc4 compatible
Mechanical load test		5400Pa



ELECTRICAL PARAMETERS

POWER CLASS	LNCT-565ND		LNCT-570ND		LNCT-575ND		LNCT-580ND		LNCT-585ND	
	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT
Maximum power (Pmax)	565W	425W	570W	429W	575W	433W	580W	437W	585W	441W
Open Circuit Voltage (Voc)	47.45V	44.60V	47.66V	44.83V	47.86V	45.05V	48.07V	45.28V	48.27V	45.50V
Short Circuit Current (Isc)	15.09A	12.07A	15.15A	12.12A	15.21A	12.17A	15.27A	12.22A	15.33A	12.26A
Voltage at Maximum power (Vmpp)	39.73V	37.36V	39.92V	37.55V	40.10V	37.74V	40.28V	37.93V	40.46V	38.12V
Current Maximum Power (Impp)	14.22A	11.38A	14.28A	11.42A	14.34A	11.47A	14.40A	11.52A	14.46A	11.57A
MODULE EFFICIENCY (%)	21.87%		22.07%		22.26%		22.45%		22.65%	

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

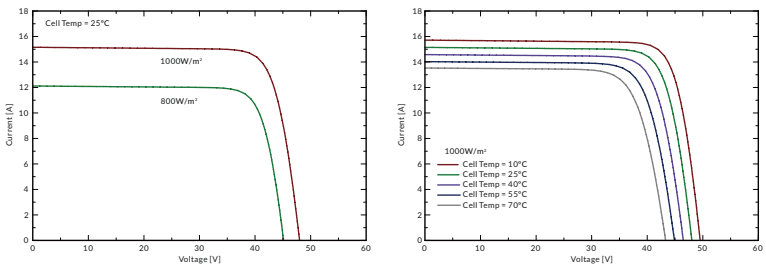
5%	Maximum power (Pmax)	593W	599W	604W	609W	614W
	Module Efficiency STC (%)	22.97%	23.17%	23.37%	23.57%	23.78%
15%	Maximum power (Pmax)	650W	656W	661W	667W	673W
	Module Efficiency STC (%)	25.15%	25.37%	25.60%	25.82%	26.04%
25%	Maximum Power (Pmax)	706W	713W	719W	725W	731W
	Module Efficiency STC (%)	27.34%	27.58%	27.82%	28.07%	28.31%

PACKING CONFIGURATION

Container	40'HQ
Pieces per pallet	36
Pallets per container	20
Pieces per container	720

I-V CURVE

LNCT-575ND/I-V



OPERATING CHARACTERISTICS

Operating Module Temperature	-40°C to +85°C
Maximun System Voltage	1500 DC (IEC)
Maximun 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 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.

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