LUXEN SOLAR

Quality Maker

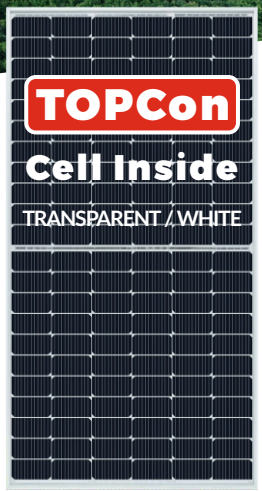
LUXPOWER® SERIES N5

Tier 1 BloombergNEF | 30 years POWER WARRANTY | 12 years PRODUCT WARRANTY

505-525W Mono Transparent Backsheet

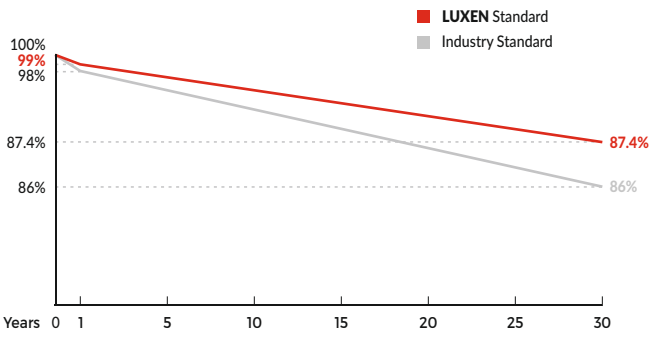
132 Half-Cell Layout

M10/182mm N-TOPCon Cell



- 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



Comprehensive Certificates

- ISO9001:2015 QMS
- ISO14001:2015 EMS
- ISO45001:2018 OHSMS
- IEC61215/IEC61730 Standard quality

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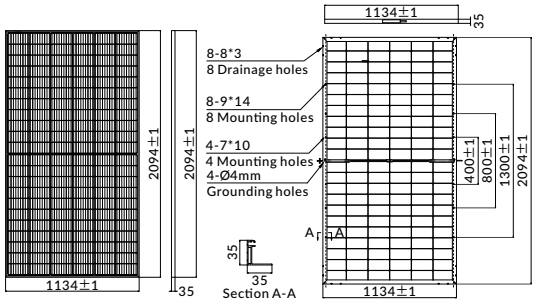
LUXPOWER® Mono I 505 - 525W TRANSPARENT BACKSHEET

Quality Maker

MECHANICAL CHARACTERISTICS

Solar Cells		N-type Mono
No. of Cells		132 (6x22)
Dimensions		2094 x 1134 x 35mm
Weight		25.5kgs
Front Glass		3.2mm coated tempered glass
Frame		Anodized aluminium alloy
Junction Box		Ip68 rated (3 by pass diodes)
Output Cables		4.0mm²
		300mm (+) / 300mm (-)
		Length can be customized
Connectors		Mc4 compatible
Mechanical load test		5400Pa



ELECTRICAL PARAMETERS

POWER CLASS	LNVT-505NB	LNVT-510NB	LNVT-515NB	LNVT-520NB	LNVT-525NB
	STC	STC	STC	STC	STC
Maximum power (Pmax)	505W	510W	515W	520W	525W
Open Circuit Voltage (Voc)	46.45V	46.64V	46.84V	47.03V	47.22V
Short Circuit Current (Isc)	13.93A	14.00A	14.07A	14.14A	14.21A
Voltage at Maximum power (Vmpp)	38.85V	39.02V	39.19V	39.36V	39.53V
Current Maximum Power (Impp)	13.00A	13.07A	13.14A	13.21A	13.28A
MODULE EFFICIENCY (%)	21.27%	21.48%	21.69%	21.90%	22.11%

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

BIFACIAL OUTPUT-REARSIDE POWER GAIN

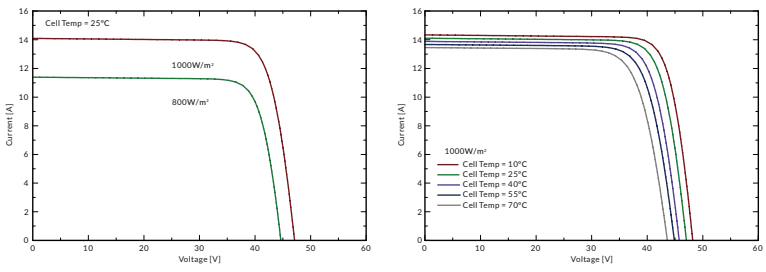
5%	Maximum power (Pmax)	530W	536W	541W	546W	551W
	Module Efficiency STC (%)	22.33%	22.55%	22.77%	22.99%	23.21%
15%	Maximum power (Pmax)	581W	587W	592W	598W	604W
	Module Efficiency STC (%)	24.46%	24.70%	24.94%	25.18%	25.43%
25%	Maximum Power (Pmax)	631W	638W	644W	650W	656W
	Module Efficiency STC (%)	26.58%	26.85%	27.11%	27.37%	27.64%

PACKING CONFIGURATION

Container	20'GP	40'HQ
Pieces per pallet	31	31
Pallets per container	5	22
Pieces per container	155	682

I-V CURVE

LNVT-520NB/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: Due to continuous technical innovation, R&D and improvement ,technical data above mentioned may be of modification accordingly. LUXEN SOLAR have the sole right to make such modification at anytime without further notice.

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