

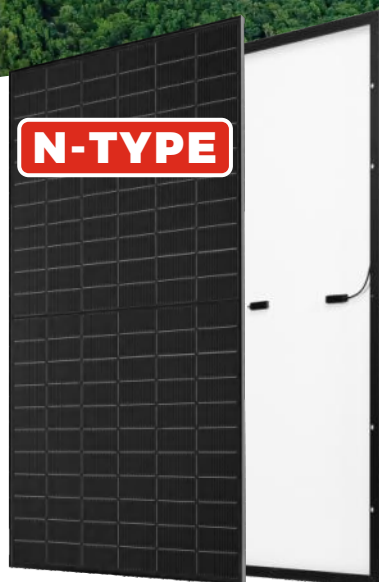
LUXNERI® SERIES **N**5

565-585W Mono

132 Half-Cell Layout

FULL BLACK (White Backsheet)

M10R N-TYPE Cell



Power Output increase by 1.5~2%
(Compared to Black Backsheet Modules)



Lower BOS & LCOE
(Compared to Black Backsheet Modules)



LECO N-TYPE
Cell Technology



SMBB Half Cut
Cell Technology

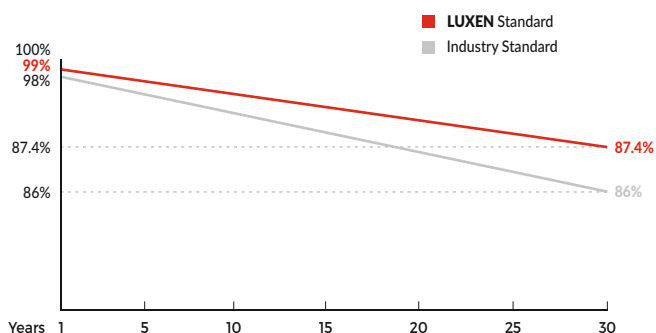


Excellent
Anti-PID
Low LID
Performance



Less Hot Spot
Shading Effects

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



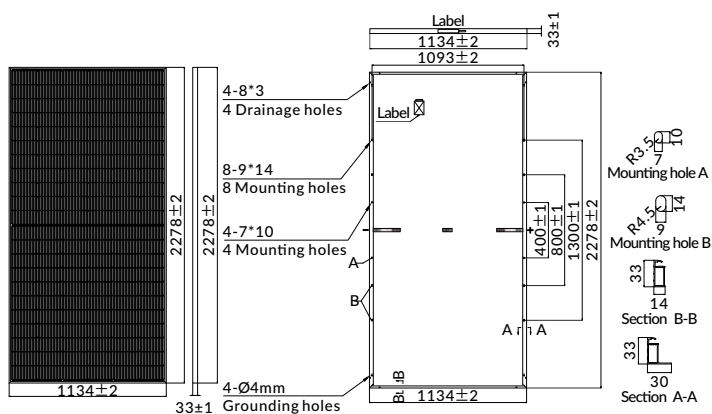
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MECHANICAL CHARACTERISTICS

Solar Cells	N-type Mono
No. of Cells	132 (6x22)
Dimensions	2278 x 1134 x 33mm
Weight	27.3kg
Front Glass	3.2mm coated 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	LNCT-565N		LNCT-570N		LNCT-575N		LNCT-580N		LNCT-585N	
	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)	47.52V	44.73V	47.73V	44.96V	47.93V	45.18V	48.14V	45.40V	48.34V	45.62V
Short Circuit Current (Isc)	15.13A	12.10A	15.19A	12.15A	15.25A	12.20A	15.31A	12.25A	15.37A	12.30A
Voltage at Maximum power (Vmpp)	39.62V	37.25V	39.80V	37.45V	39.99V	37.64V	40.17V	37.83V	40.34V	38.02V
Current Maximum Power (Impp)	14.26A	11.41A	14.32A	11.46A	14.38A	11.50A	14.44A	11.55A	14.50A	11.60A
MODULE EFFICIENCY (%)	21.87%		22.07%		22.26%		22.45%		22.65%	

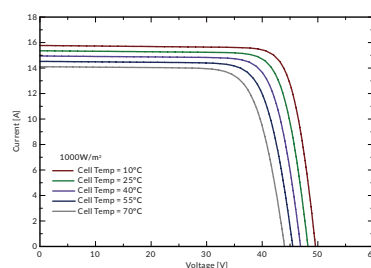
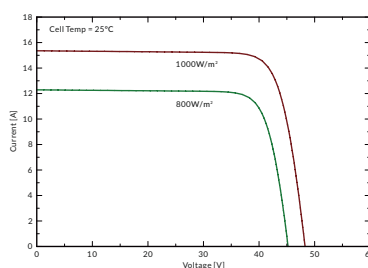
STC: Irradiance 1000W/m², cell temperature 25°C, AM1.5G NMOT: Irradiance 800W/m², ambient temperature 20°C, wind speed 1m/s, AM1.5G

PACKING CONFIGURATION

Container	40'HQ
Pieces per pallet	34
Pallets per container	20
Pieces per container	680

I-V CURVE

LNCT-580N/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.