

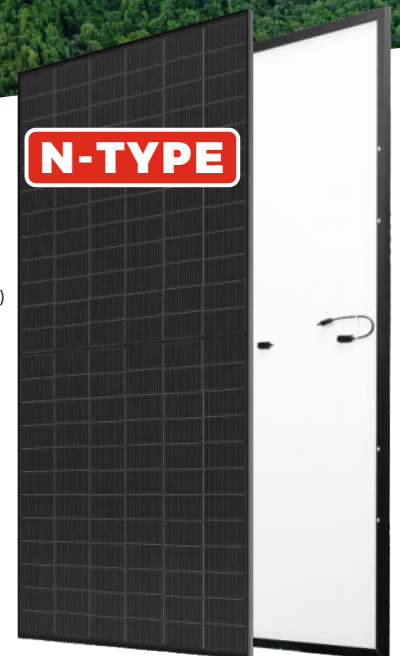
LUXNERI® SERIES **N**5

620-640W Mono

144 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

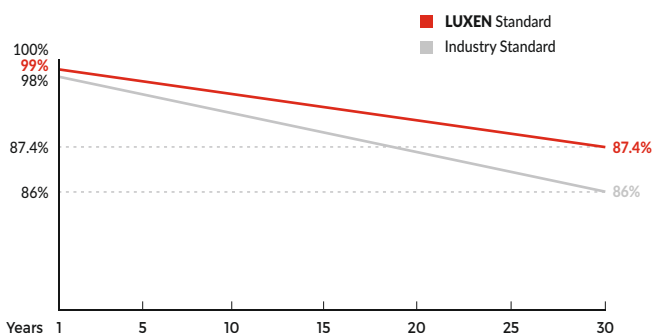


Excellent
Anti-PID
Low LID
Performance



Less Hot Spot
Shading Effects

Linear Performance Warranty



* LUXEN N-TYPE: Standard warranty 15 years, can be extended up to 20 years.

Insured By



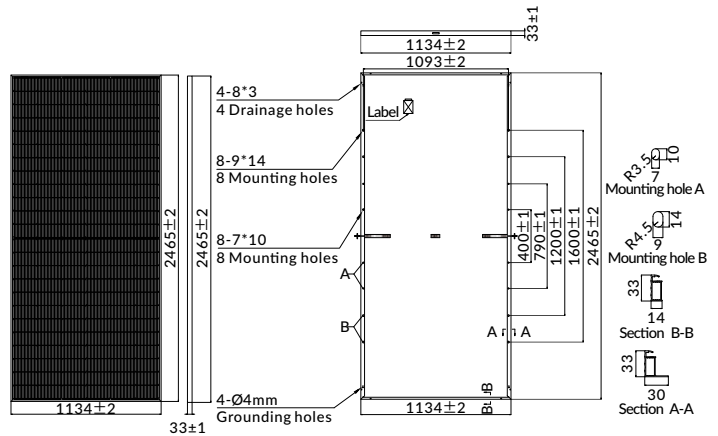
Comprehensive Certificates

- ISO9001:2015 QMS
- ISO14001:2015 EMS
- ISO45001:2018 OHSMS
- IEC61215/IEC61730 Standard Quality
- IEC61701/IEC62716 Salt/Mist/Ammonia Tests



MECHANICAL CHARACTERISTICS

Solar Cells	N-type Mono
No. of Cells	144 (6x24)
Dimensions	2465 x 1134 x 33mm
Weight	29.8kg
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	LNCU-620N		LNCU-625N		LNCU-630N		LNCU-635N		LNCU-640N	
	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)	51.98V	49.20V	52.17V	49.41V	52.36V	49.62V	52.54V	49.82V	52.73V	50.02V
Short Circuit Current (Isc)	15.16A	12.13A	15.22A	12.18A	15.28A	12.22A	15.34A	12.27A	15.40A	12.32A
Voltage at Maximum power (Vmpp)	43.39V	40.85V	43.55V	41.03V	43.72V	41.20V	43.88V	41.38V	44.05V	41.55V
Current Maximum Power (Impp)	14.29A	11.43A	14.35A	11.48A	14.41A	11.53A	14.47A	11.58A	14.53A	11.62A
MODULE EFFICIENCY (%)	22.18%		22.36%		22.54%		22.72%		22.90%	

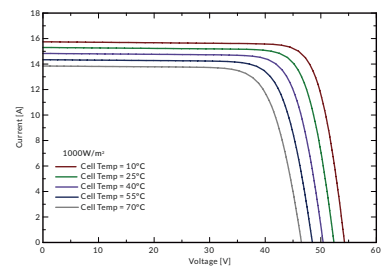
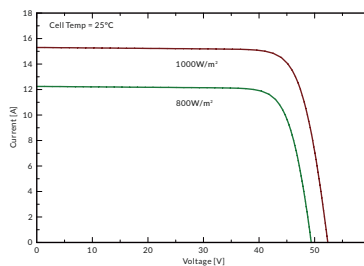
STC: Irradiance 1000W/m², cell temperature 25°C, AM1.5G NMOT: Irradiance 800W/m², ambient temperature 20°C, wind speed 1m/s, AM1.5G

PACKING CONFIGURATION

Container	40'HQ
Pieces per pallet	34
Pallets per container	16
Pieces per container	544

I-V CURVE

LNCU-630N/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.