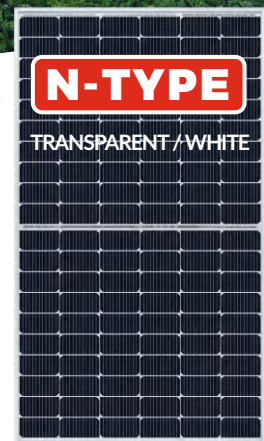


LUXPOWER® SERIES **N**5

470-490W Mono BIFACIAL DG

120 Half-Cell Layout

M10 N-TYPE Cell



LECO N-TYPE Cell Technology



SMBB Half Cut Cell Technology



Bifacial Cell Module Technologies



Excellent Anti-PID Low LID Performance

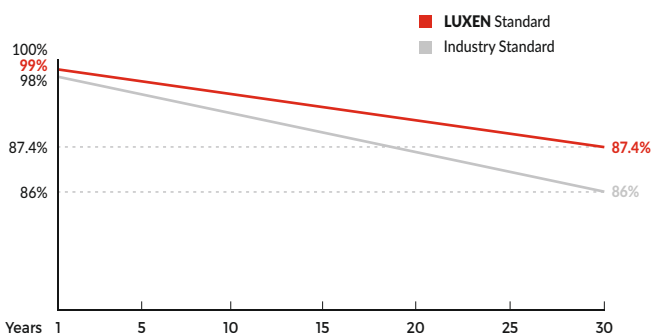


Less Hot Spot Shading Effects



Higher Power Output Lower BOS & LCOE

Linear Performance Warranty



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

Insured By



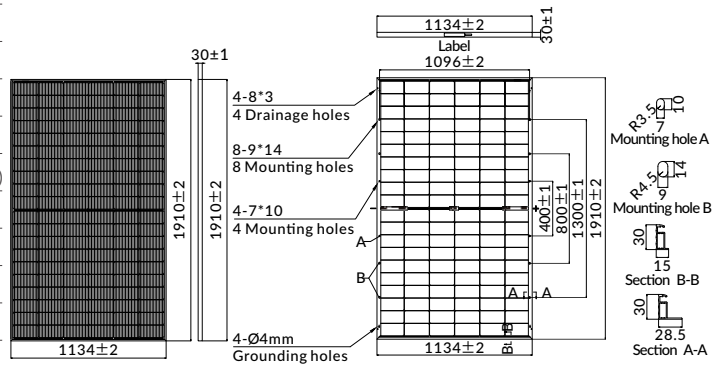
Comprehensive Certificates

- 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	120 (6x20)
Dimensions	1910 x 1134 x 30mm
Weight	26.0kg
Front / Back Glass	2.0mm coated semi-tempered glass
Frame	Anodized aluminium alloy (reinforced high-load optional)
Junction Box	Ip68 rated (3 by pass diodes)
Output Cables	4.0mm ²
	250mm (+) / 350mm (-)
Connectors	Length can be customized
	Mc4 compatible
Mechanical load test	Front 5400Pa / Rear 2400Pa



ELECTRICAL PARAMETERS

POWER CLASS	LNVK-470ND		LNVK-475ND		LNVK-480ND		LNVK-485ND		LNVK-490ND	
	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT
Maximum power (Pmax)	470W	353W	475W	357W	480W	361W	485W	365W	490W	369W
Open Circuit Voltage (Voc)	42.94V	40.92V	43.15V	41.10V	43.36V	41.28V	43.57V	41.46V	43.78V	41.63V
Short Circuit Current (Isc)	14.02A	11.29A	14.09A	11.35A	14.16A	11.41A	14.23A	11.47A	14.30A	11.53A
Voltage at Maximum power (Vmpp)	35.31V	32.75V	35.50V	32.93V	35.69V	33.12V	35.87V	33.30V	36.06V	33.48V
Current Maximum Power (Impp)	13.31A	10.78A	13.38A	10.84A	13.45A	10.90A	13.52A	10.96A	13.59A	11.02A
MODULE EFFICIENCY (%)	21.70%		21.93%		22.16%		22.39%		22.62%	

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

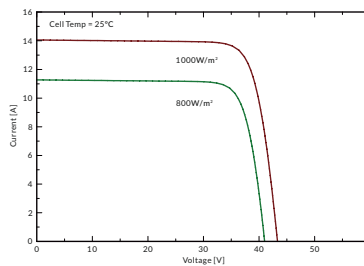
BIFACIAL OUTPUT-REAR SIDE POWER GAIN

%	Parameter	LNVK-470ND		LNVK-475ND		LNVK-480ND		LNVK-485ND		LNVK-490ND	
		Value	Value	Value	Value	Value	Value	Value	Value	Value	Value
5%	Maximum power (Pmax)	494W	499W	504W	509W	515W					
	Module Efficiency STC (%)	22.78%	23.03%	23.27%	23.51%	23.75%					
15%	Maximum power (Pmax)	541W	546W	552W	558W	564W					
	Module Efficiency STC (%)	24.95%	25.22%	25.49%	25.75%	26.02%					
25%	Maximum Power (Pmax)	588W	594W	600W	606W	613W					
	Module Efficiency STC (%)	27.12%	27.41%	27.70%	27.99%	28.28%					

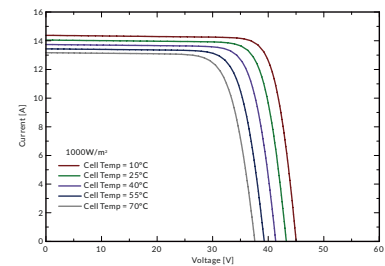
PACKING CONFIGURATION

Container	20'GP	40'HQ
Pieces per pallet	36	36
Pallets per container	6	24
Pieces per container	216	864

I-V CURVE



LNVK-475ND/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.