LUXEN SOLAR

Quality Maker

LUXPOWER® SERIES 4

440-460W Mono

144 Half-Cell Layout

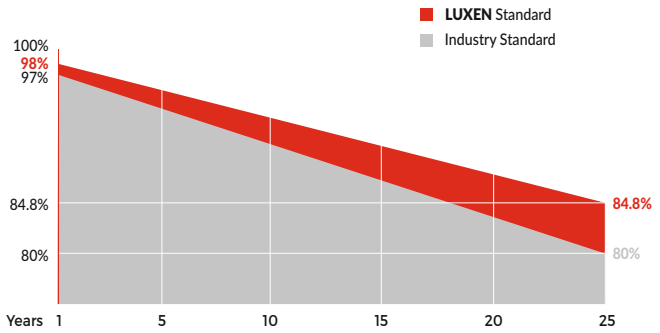
M6/166mm Cell

25 years POWER WARRANTY

*Up to 15 years PRODUCT WARRANTY

- Half Cut Cell Technology
- MBB Technology
- Anti-PID Low LID Performance
- Less Hot Spot Shading Effects
- Low Power Temperature Coefficient
- Lower BOS & LCOE

Linear Performance Warranty



* LUXEN PERC: Standard warranty 12 years, can be extended up to 15 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

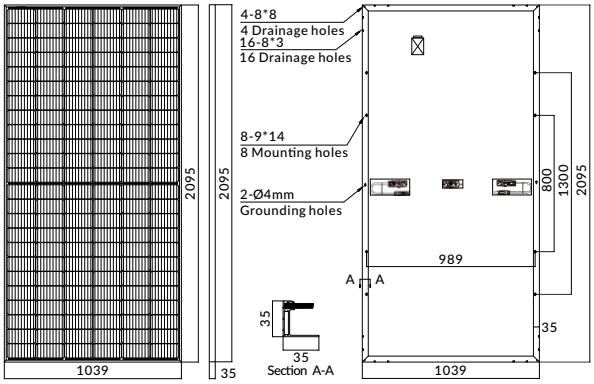
LUXEN SOLAR ENERGY CO., LTD.
Operational HQ: Vienna Technology Center, Christine-Touaillon-Strasse 11/2.01, 1220 Vienna, Austria
Production HQ: No.1, Haiyue Road, Nantong, Jiangsu, 226000, China
europe@luxensolar.at
www.luxensolar.com

LUXPOWER® Mono I 440 - 460W

Quality Maker

MECHANICAL CHARACTERISTICS

Solar Cells		Mono
No. of Cells		144 (6x24)
Dimensions		2095 x 1039 x 35mm
Weight		23.0kg
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	LNSU-440M		LNSU-445M		LNSU-450M		LNSU-455M		LNSU-460M	
	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT
Maximum power (Pmax)	440W	324W	445W	327W	450W	330W	455W	333W	460W	336W
Open Circuit Voltage (Voc)	49.38V	45.51V	49.58V	45.54V	49.77V	45.56V	49.96V	45.59V	50.06V	45.61V
Short Circuit Current (Isc)	11.47A	9.16A	11.53A	9.22A	11.59A	9.29A	11.65A	9.35A	11.73A	9.42A
Voltage at Maximum power (Vmpp)	41.01V	37.67V	41.20V	37.77V	41.40V	37.88V	41.59V	37.98V	41.78V	38.09V
Current Maximum Power (Impp)	10.73A	8.60A	10.80A	8.66A	10.87A	8.71A	10.94A	8.77A	11.01A	8.82A
MODULE EFFICIENCY (%)	20.21%		20.44%		20.67%		20.90%		21.13%	

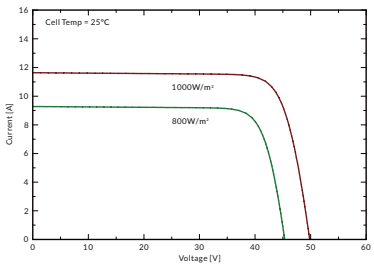
STC: Irradiance 1000W/m², cell temperature 25°C, AM1.5G **NMOT:** Irradiance 800W/m², ambient temperature 20°C, wind speed 1m/s, AM1.5G

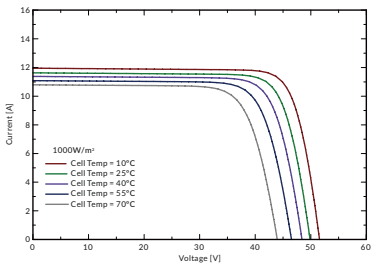
PACKING CONFIGURATION

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

I-V CURVE

LNSU-450M/I-V





OPERATING CHARACTERISTICS

Operating Module Temperature	-40°C to +85°C
Maximun System Voltage	1500 DC (IEC)
Maximun Series Fuse Rating	20A
Power Tolerance	0/+5W

TEMPERATURE CHARACTERISTICS

Nominal Operating Temperature (NMOT)	45±2°C
Temperature Coefficient of Pmax	-0.36%°C
Temperature Coefficient of Voc	-0.28%°C
Temperature Coefficient of Isc	+0.05%°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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