

LUXNERI® SERIES 4

435-455W Mono FULL BLACK

144 Half-Cell Layout
M6/166mm Cell



Full Black Appearance
for Aesthetic Effect



Gallium-doped Technology



Half Cut Cell Technology



Anti-PID
Low LID
Performance

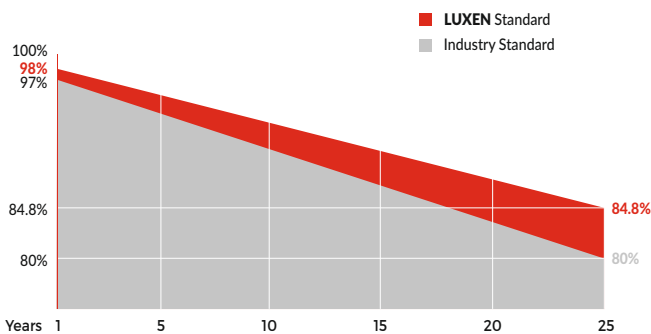


Less Hot Spot
Shading Effects



Ideal for Residential
Rooftop Application

Linear performance Warranty



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

Comprehensive Certificates

- ISO9001:2015 QMS
- ISO14001:2015 EMS
- ISO45001:2018 OHSMS
- IEC61215/IEC61730 Standard Quality
- IEC60068-2-68 Dust & Sand
- IEC61701 Salt Mist Corrosion
- IEC716 Ammonia Corrosion



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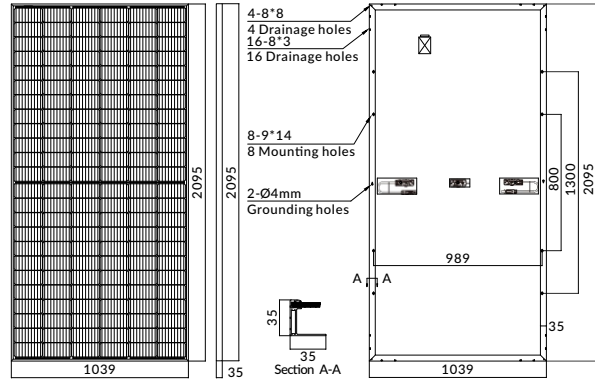
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MECHANICAL CHARACTERISTICS

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	4.0mm ²
	300mm (+) / 300mm (-) or customized
Frame Size	35mm
Connectors	Mc4 compatible
Mechanical load test	5400Pa



ELECTRICAL PARAMETERS

POWER CLASS	LNSU-435M		LNSU-440M		LNSU-445M		LNSU-450M		LNSU-455M	
	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT
Maximum power (Pmax)	435W	321W	440W	324W	445W	327W	450W	330W	455W	333W
Open Circuit Voltage (Voc)	49.18V	45.48V	49.38V	45.51V	49.58V	45.54V	49.77V	45.56V	49.96V	45.59V
Short Circuit Current (Isc)	11.41A	9.09A	11.47A	9.16A	11.53A	9.22A	11.59A	9.29A	11.65A	9.35A
Voltage at Maximum power (Vmpp)	40.81V	37.56V	41.01V	37.67V	41.20V	37.77V	41.40V	37.88V	41.59V	37.98V
Current Maximum Power (Impp)	10.66A	8.55A	10.73A	8.60A	10.80A	8.66A	10.87A	8.71A	10.94A	8.77A
MODULE EFFICIENCY (%)	19.98%		20.21%		20.44%		20.67%		20.90%	

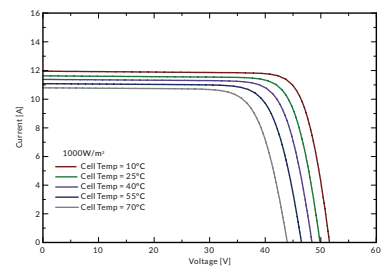
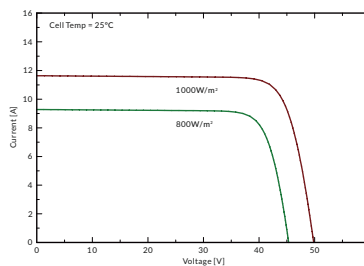
STC: Irradiance 1000W/m², cell temperature 25°C, AM1.5G NMOT: Irradiance 800W/m², ambient temperature 20°C, wind speed 1m/s, AM1.5G

PACKING CONFIGURATION

Container	20'GP	40'HC
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
Maximum System Voltage	1500 DC (IEC)
Maximum 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.