

LUXPOWER® SERIES 4

405-420W Poly

144 Half-Cell Layout

M6/166mm Cell



Half Cut Cell Technology



MBB Technology



Anti-PID
Low LID
Performance



Less Hot Spot
Shading Effects

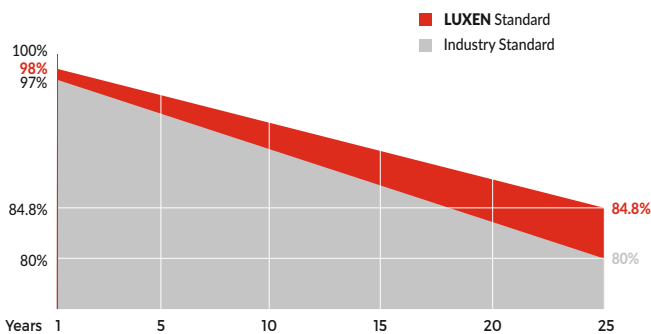


Low Power
Temperature Coefficient



Lower BOS & LCOE

Linear performance Warranty



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

Comprehensive Certificates

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



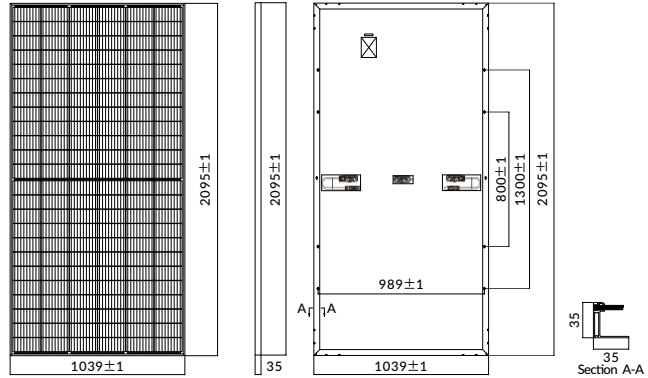
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MECHANICAL CHARACTERISTICS

Solar Cells	Poly
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)
	4.0mm ²
Output Cables	300mm (+) / 300mm (-)
	Length can be customized
Connectors	Mc4 compatible
Mechanical load test	5400Pa



ELECTRICAL PARAMETERS

POWER CLASS	LNSU-405P		LNSU-410P		LNSU-415P		LNSU-420P	
	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT
Maximum power (Pmax)	405W	303W	410W	307W	415W	311W	420W	315W
Open Circuit Voltage (Voc)	47.67V	44.95V	47.87V	45.10V	48.06V	45.24V	48.25V	45.38V
Short Circuit Current (Isc)	10.93A	8.81A	11.01A	8.87A	11.09A	8.93A	11.17A	8.99A
Voltage at Maximum power (Vmpp)	39.02V	36.46V	39.20V	36.68V	39.37V	36.89V	39.55V	37.10V
Current Maximum Power (Impp)	10.38A	8.31A	10.46A	8.37A	10.54A	8.43A	10.62A	8.49A
MODULE EFFICIENCY (%)	18.61%		18.84%		19.07%		19.30%	

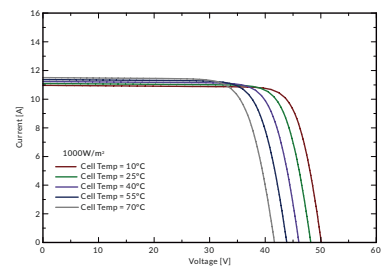
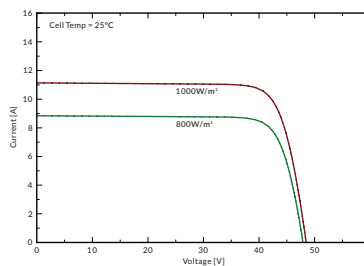
STC: Irradiance 1000W/m², cell temperature 25°C, AM1.5G NMOT: Irradiance 800W/m², ambient temperature 20°C, wind speed 1m/s, AM1.5G

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-415P/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.