

LUXNERI® SERIES 5

435-455W Mono FULL BLACK

120 Half-Cell Layout

M10/182mm Cell



Full Black Appearance
for Aesthetic Effect



Gallium-doped Technology



Half Cut Cell Technology



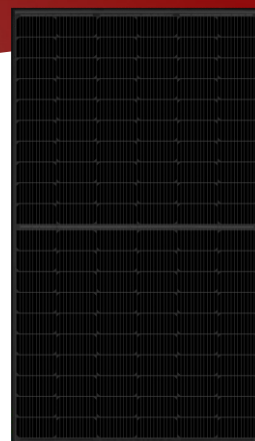
Anti-PID
Low LID
Performance



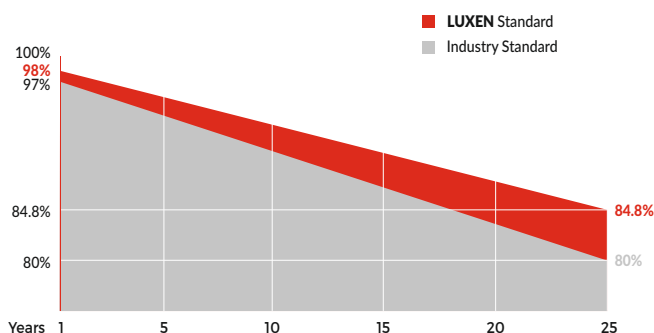
Less Hot Spot
Shading Effects



Ideal for Residential
Rooftop Application



Linear performance Warranty



Comprehensive Certificates

- ISO9001:2015 QMS
- ISO14001:2015 EMS
- ISO45001:2018 OHSMS
- IEC61215/IEC61730 Standard quality



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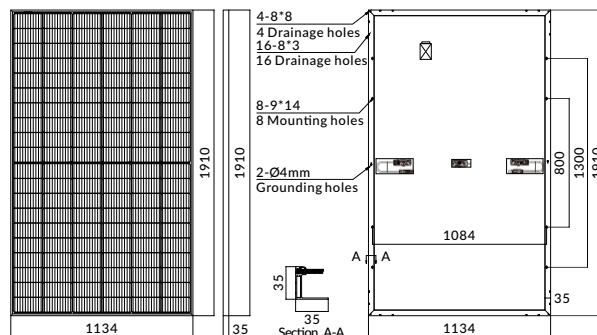
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MECHANICAL CHARACTERISTICS

Solar Cells	Mono
No. of Cells	120 (6x20)
Dimensions	1910 x 1134 x 35mm
Weight	23.0kgs
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	LNVK-435M		LNVK-440M		LNVK-445M		LNVK-450M		LNVK-455M	
	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT
Maximum power (Pmax)	435W	327W	440W	331W	445W	335W	450W	339W	455W	343W
Open Circuit Voltage (Voc)	41.75V	39.29V	41.94V	39.56V	42.12V	39.83V	42.31V	40.09V	42.49V	40.35V
Short Circuit Current (Isc)	13.51A	10.83A	13.58A	10.87A	13.65A	10.91A	13.72A	10.95A	13.79A	10.99A
Voltage at Maximum power (Vmpp)	34.47V	32.03V	34.67V	32.29V	34.87V	32.56V	35.07V	32.82V	35.27V	33.08V
Current Maximum Power (Impp)	12.62A	10.21A	12.69A	10.25A	12.76A	10.29A	12.83A	10.33A	12.90A	10.37A
MODULE EFFICIENCY (%)	20.08%		20.31%		20.55%		20.78%		21.01%	

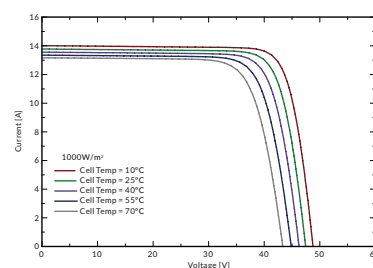
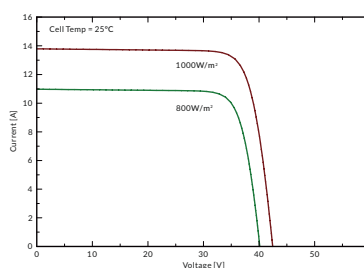
STC: Irradiance 1000W/m², cell temperature 25°C, AM1.5GNMOT: Irradiance 800W/m², ambient temperature 20°C, wind speed 1m/s, AM1.5G

PACKING CONFIGURATION

Container	20'GP	40'HQ
Pieces per pallet	31	31
Pallets per container	6	24
Pieces per container	186	744

I-V CURVE

LNVK-455M/I-V



OPERATING CHARACTERISTICS

Operating Module Temperature	-40°C to +85°C
Maximum System Voltage	1500 DC (IEC)
Maximum Series Fuse Rating	25A
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: Due to continuous technical innovation, R&D and improvement, technical data above mentioned may be of modification accordingly. LUXEN SOLAR have the sole right to make such modification at anytime without further notice.