![LUXEN SOLAR logo]

Quality Maker

LUXNERI® SERIES 5

485-500W Mono ALL BLACK

M10/182mm Cell . 132 Half-Cell Layout

Assembled with the breakthrough M10 (182mm) high power cells, **LUXNERI**® Series 5 ALL BLACK solar modules combine the impressive aesthetic appearance with the innovative technologies of gallium-doped wafer, half-cut cell, multi busbarsand integrated segmented ribbon interconnection. The perfect visual effect, together with the high power generation performance and the reduced LID, hot spot and shading risks, make it ideal for residential rooftop application.

25 years POWER WARRANTY

12 years PRODUCT WARRANTY
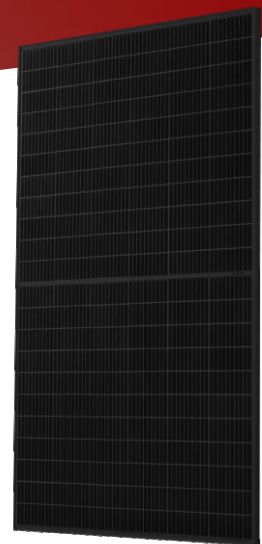
Full Black Appearance for Aesthetic Effect

Ga Gallium-doped Technology

Half Cut Cell Technology

anti PID LID Anti-PID Low LID Performance

A Less Hot Spot Shading Effects

Ideal for Residential Rooftop Application

Linear performance Warranty

LUXEN Standard
Industry Standard

100%
97,5%
97%
84.8%
84.8%
80%
80%

Years 0 1   5   10   15   20   25
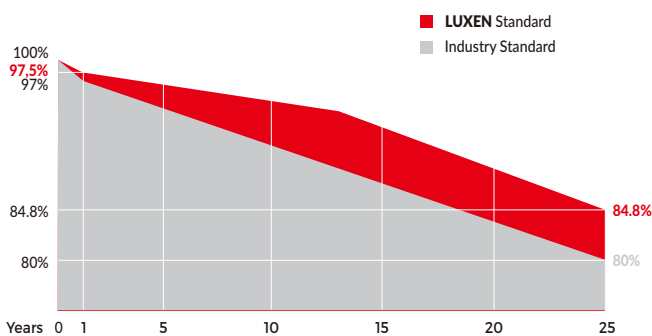
## Comprehensive Certificates

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

ISO   TÜV   C€   CQC   INMETRO   Clean Energy Council

MECHANICAL CHARACTERISTICS

Solar Cells	Mono
No. of Cells	132 (6x22)
Dimensions	2094 x 1134 x 35mm
Weight	25.5kgs
Front Glass	3.2mm coated tempered glass
Frame	Anodized aluminium alloy
Junction Box	Ip68 rated (3 by pass diodes)
Output Cables	4.0mm²
	300mm (+) / 400mm (-)
	Length can be customized
Connectors	Mc4 compatible
Mechanical load test	5400Pa
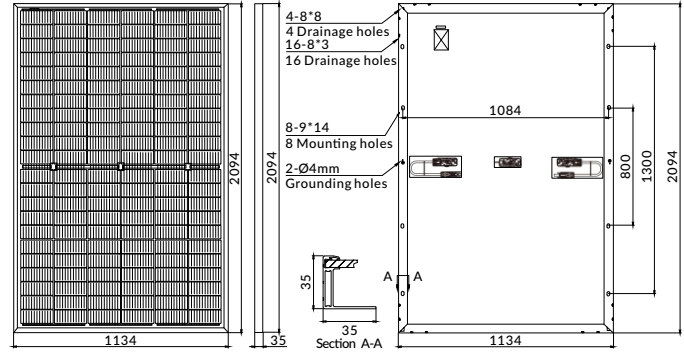
ELECTRICAL PARAMETERS

| POWER CLASS	LNVT-485M		LNVT-490M		LNVT-495M		LNVT-500M	
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum power (Pmax)	485W	365W	490W	369W	495W	373W	500W	377W
Open Circuit Voltage (Voc)	48.34V	44.93V	48.51V	45.18V	48.67V	45.44V	48.83V	45.69V
Short Circuit Current (Isc)	12.99A	10.55A	13.06A	10.59A	13.13A	10.63A	13.20A	10.67A
Voltage at Maximum power (Vmpp)	40.08V	36.76V	40.26V	37.01V	40.44V	37.26V	40.62V	37.51V
Current Maximum Power (Impp)	12.10A	9.93A	12.17A	9.97A	12.24A	10.01A	12.31A	10.05A
MODULE EFFICIENCY (%)	20.42%		20.64%		20.85%		21.06%	

STC: Irradiance 1000W/m², cell temperature 25°C, AM1.5G   **NOCT:** 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   LNVT-490M/I-V
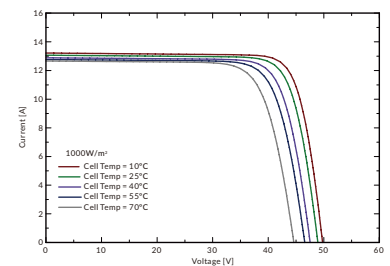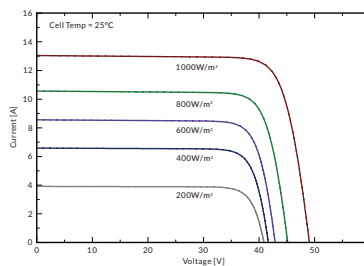
OPERATING CHARACTERISTICS

Operating Module Temperature	−40°C to + 85°C
Maximun System Voltage	1500 DC (IEC)
Maximun Series Fuse Rating	25A
Power Tolerance	0/+5W

TEMPERATURE CHARACTERISTICS

Nominal Operating Temperature (Noct)	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.

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