

LUXNERI® SERIES 5

575-595W Mono

156 Half-Cell Layout
FULL BLACK BIFACIAL DG
M10/182mm Cell



FRAME
TRANSPARENT / WHITE



Bifacial Cell
Module Technologies



Gallium-doped Technology



Half Cut Cell Technology



Anti-PID
Low LID
Performance

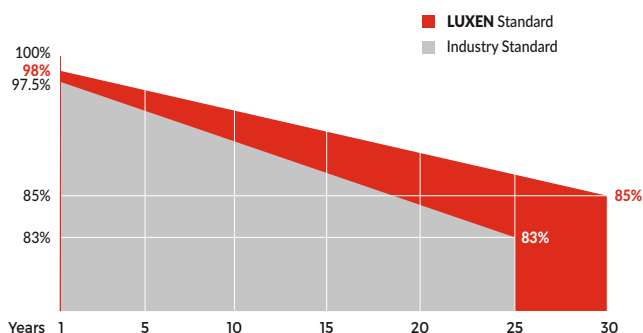


Less Hot Spot
Shading Effects



Enduring High
Reliability & Performance

Linear performance Warranty



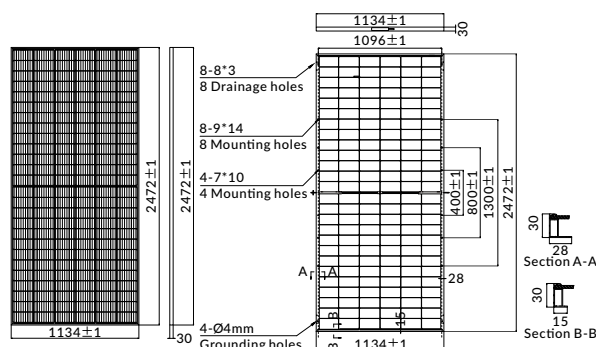
Comprehensive Certificates

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



MECHANICAL CHARACTERISTICS

Solar Cells	Mono
No. of Cells	156 (6x26)
Dimensions	2472 x 1134 x 30mm
Weight	34.5kgs
Front Glass	2.0mm coated semi-tempered glass
Back Glass	2.0mm semi-tempered glass
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	LNVD-575MD	LNVD-580MD	LNVD-585MD	LNVD-590MD	LNVD-595MD
	STC	STC	STC	STC	STC
Maximum power (Pmax)	575W	580W	585W	590W	595W
Open Circuit Voltage (Voc)	51.02V	51.15V	51.29V	51.42V	51.55V
Short Circuit Current (Isc)	14.25A	14.32A	14.39A	14.46A	14.53A
Voltage at Maximum power (Vmpp)	43.04V	43.19V	43.33V	43.48V	43.62V
Current Maximum Power (Impp)	13.36A	13.43A	13.50A	13.57A	13.64A
MODULE EFFICIENCY (%)	20.51%	20.69%	20.87%	21.05%	21.23%

STC: Irradiance 1000W/m², cell temperature 25°C, AM1.5G

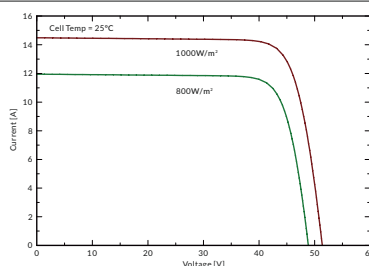
BIFACIAL OUTPUT-REAR SIDE POWER GAIN

5%	Maximum power (Pmax)	604W	609W	614W	620W	625W
	Module Efficiency STC (%)	21.54%	21.72%	21.91%	22.10%	22.29%
15%	Maximum power (Pmax)	661W	667W	673W	679W	684W
	Module Efficiency STC (%)	23.59%	23.79%	24.00%	24.20%	24.41%
25%	Maximum Power (Pmax)	719W	725W	731W	738W	744W
	Module Efficiency STC (%)	25.64%	25.86%	26.09%	26.31%	26.53%

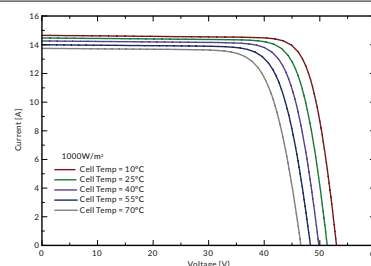
PACKING CONFIGURATION

Container	20'GP	40'HQ
Pieces per pallet	36	36
Pallets per container	4	16
Pieces per container	144	576

I-V CURVE



LNVD-590MD/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	-0.32%/°C
Temperature Coefficient of Voc	-0.26%/°C
Temperature Coefficient of Isc	+0.046%/°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.