

LUXPOWER® SERIES 5 530-550W Mono

M10/182mm Cell . 144 Half-Cell Layout



LUXPOWER® Series 5 solar modules stand out with the breakthrough innovation of M10 size (182mm) solar cells for the highest power generation and the lowest LCOE, which makes Series 5 the optimal choice for large solar power plants. The gallium-doped wafer technology empowers significantly the performance against LID and the latest integrated segmented ribbon technology increases the power output and enhances the module reliability for long-term use.



Gallium-doped Technology



Half Cut Cell Technology



MBB Technology



Anti-PID
Low LID
Performance

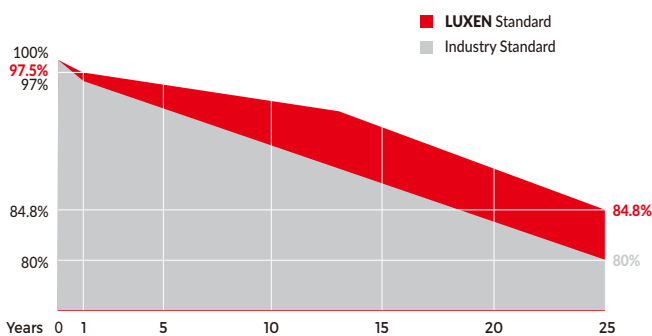


Less Hot Spot
Shading Effects



Lower BOS & LCOE

Linear performance Warranty



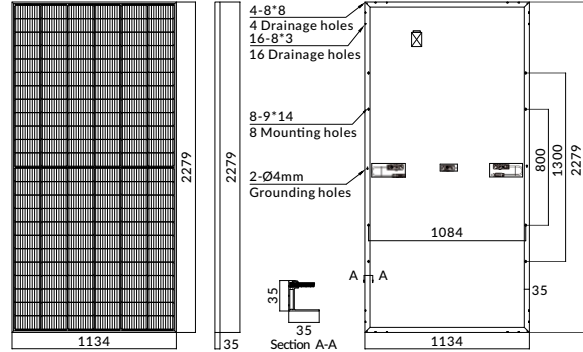
Comprehensive Certificates

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



MECHANICAL CHARACTERISTICS

| | |
|----------------------|-------------------------------|
| Solar Cells | Mono |
| No. of Cells | 144 (6x24) |
| Dimensions | 2279 x 1134 x 35mm |
| Weight | 27.5kgs |
| 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 (+) / 400mm (-) |
| | Length can be customized |
| Connectors | Mc4 compatible |
| Mechanical load test | 5400Pa |



ELECTRICAL PARAMETERS

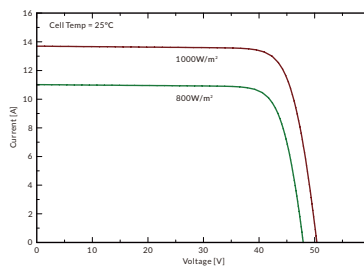
| POWER CLASS | LNVU-530M | | LNVU-535M | | LNVU-540M | | LNVU-545M | | LNVU-550M | |
|---------------------------------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|
| | STC | NOCT | STC | NOCT | STC | NOCT | STC | NOCT | STC | NOCT |
| Maximum power (Pmax) | 530W | 401W | 535W | 405W | 540W | 409W | 545W | 413W | 550W | 417W |
| Open Circuit Voltage (Voc) | 49.74V | 47.16V | 49.89V | 47.40V | 50.04V | 47.63V | 50.18V | 47.87V | 50.32V | 48.10V |
| Short Circuit Current (Isc) | 13.62A | 10.91A | 13.69A | 10.95A | 13.76A | 10.99A | 13.83A | 11.03A | 13.90A | 11.07A |
| Voltage at Maximum power (Vmpp) | 41.63V | 38.97V | 41.80V | 39.21V | 41.96V | 39.44V | 42.12V | 39.67V | 42.28V | 39.90V |
| Current Maximum Power (Impp) | 12.73A | 10.29A | 12.80A | 10.33A | 12.87A | 10.37A | 12.94A | 10.41A | 13.01A | 10.45A |
| MODULE EFFICIENCY (%) | 20.51% | | 20.70% | | 20.89% | | 21.09% | | 21.28% | |

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

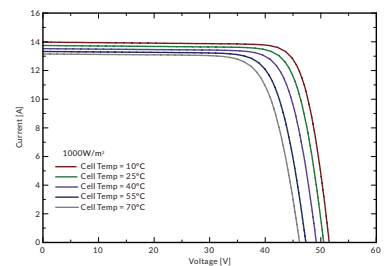
PACKING CONFIGURATION

| | | |
|-----------------------|-------|-------|
| Container | 20'GP | 40'HQ |
| Pieces per pallet | 31 | 31 |
| Pallets per container | 5 | 20 |
| Pieces per container | 155 | 620 |

I-V CURVE



LNVU-545M/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 (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.