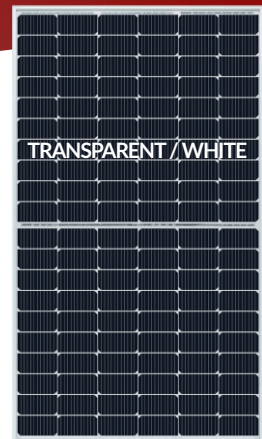


LUXPOWER® SERIES 5

435-455W Mono Transparent Backsheet

120 Half-Cell Layout

M10/182mm Cell



Gallium-doped Technology



Half Cut Cell Technology



MBB Technology



Anti-PID
Low LID
Performance

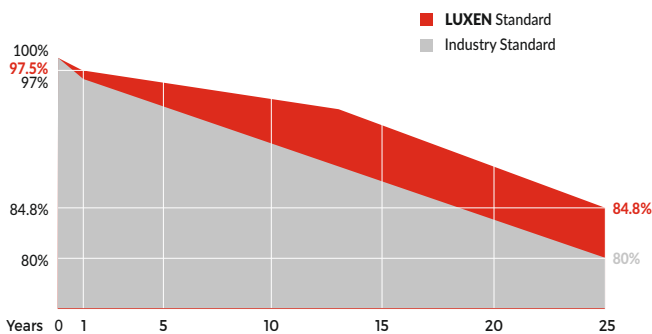


Less Hot Spot
Shading Effects



Lower BOS & LCOE

Linear performance Warranty



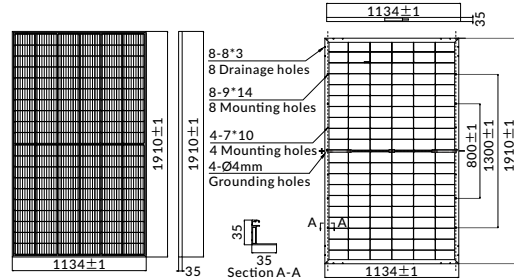
Comprehensive Certificates

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



MECHANICAL CHARACTERISTICS

| | |
|----------------------|-------------------------------|
| Solar Cells | Mono |
| No. of Cells | 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 | STC | STC | STC | STC |
| Maximum power (Pmax) | 435W | 440W | 445W | 450W | 455W |
| Open Circuit Voltage (Voc) | 41.75V | 41.94V | 42.12V | 42.31V | 42.49V |
| Short Circuit Current (Isc) | 13.51A | 13.58A | 13.65A | 13.72A | 13.79A |
| Voltage at Maximum power (Vmpp) | 34.47V | 34.67V | 34.87V | 35.07V | 35.27V |
| Current Maximum Power (Impp) | 12.62A | 12.69A | 12.76A | 12.83A | 12.90A |
| MODULE EFFICIENCY (%) | 20.08% | 20.31% | 20.55% | 20.78% | 21.01% |

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

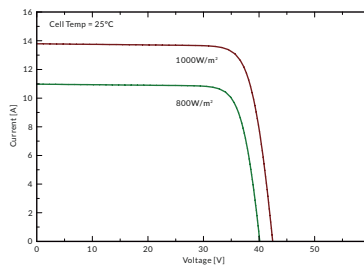
BIFACIAL OUTPUT-REAR SIDE POWER GAIN

| | | | | | | |
|-----|---------------------------|--------|--------|--------|--------|--------|
| 5% | Maximum power (Pmax) | 457W | 462W | 467W | 473W | 478W |
| | Module Efficiency STC (%) | 21.09% | 21.33% | 21.57% | 21.82% | 22.06% |
| 15% | Maximum power (Pmax) | 500W | 506W | 512W | 518W | 523W |
| | Module Efficiency STC (%) | 23.10% | 23.36% | 23.63% | 23.89% | 24.16% |
| 25% | Maximum Power (Pmax) | 544W | 550W | 556W | 563W | 569W |
| | Module Efficiency STC (%) | 25.10% | 25.39% | 25.68% | 25.97% | 26.26% |

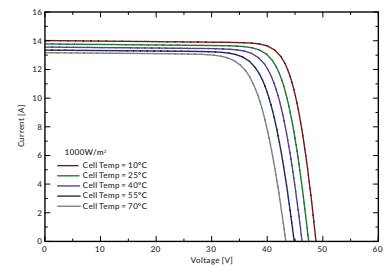
PACKING CONFIGURATION

| | | |
|-----------------------|-------|-------|
| 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.