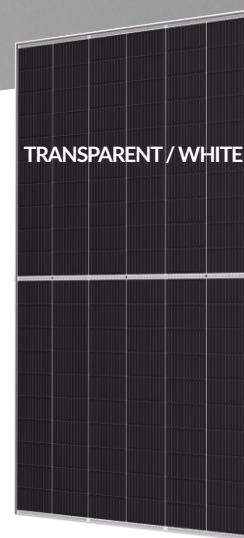


LUXPOWER® SERIES 6



585-605W Mono BIFACIAL DG 120 Half-Cell Layout M12/210mm Cell



Bifacial Cell
Module Technologies



Gallium-doped Technology



Half Cut Cell Technology



Anti-PID
Low LID
Performance

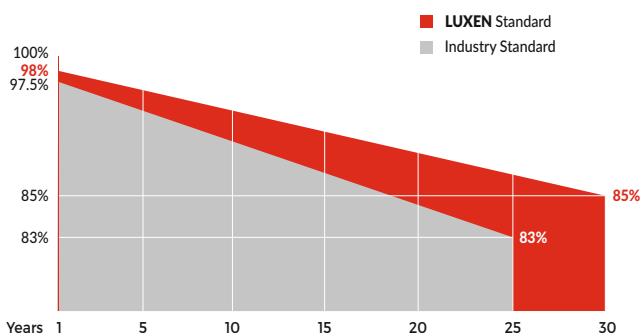


Less Hot Spot
Shading Effects



Enduring High
Reliability & Performance

Linear Performance Warranty



* LUXEN PERC: Standard warranty 12 years, can be extended up to 15 years.

Insured By



Comprehensive Certificates

- ISO9001:2015 QMS
- ISO14001:2015 EMS
- ISO45001:2018 OHSMS
- IEC61215/IEC61730 Standard Quality
- IEC61701/IEC62716 Salt/Mist/Ammonia Tests



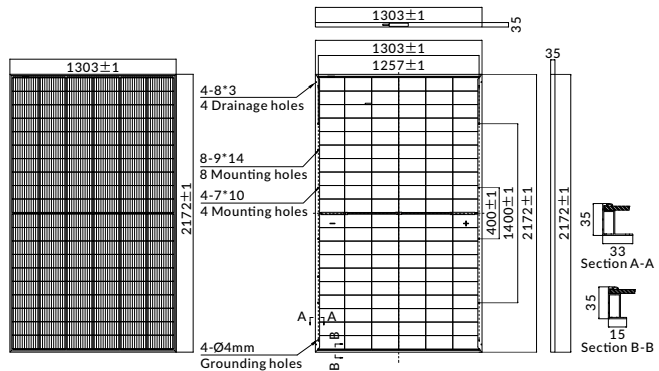
LUXEN SOLAR ENERGY CO., LTD.

Operational HQ: Vienna Technology Center, Christine-Touaillon-Strasse 11/2.01, 1220 Vienna, Austria
Production HQ: No.1, Haiyue Road, Nantong, Jiangsu, 226000, China
europe@luxensolar.at

www.luxensolar.com

MECHANICAL CHARACTERISTICS

| | |
|----------------------|---|
| Solar Cells | Mono |
| No. of Cells | 120 (6x20) |
| Dimensions | 2172 x 1303 x 35mm |
| Weight | 35.0kg |
| Front Glass | 2.0mm coated semi-tempered glass |
| Back Glass | 2.0mm semi-tempered glass |
| Junction Box | Ip68 rated (3 by pass diodes) |
| Output Cables | 4.0mm ² 300mm (+) / 300mm (-) Length can be customized |
| Connectors | Mc4 compatible |
| Mechanical load test | 5400Pa |



ELECTRICAL PARAMETERS

| POWER CLASS | LNEK-585MD | | LNEK-590MD | | LNEK-595MD | | LNEK-600MD | | LNEK-605MD | |
|---------------------------------|------------|--------|------------|--------|------------|--------|------------|--------|------------|--------|
| | STC | NMOT | STC | NMOT | STC | NMOT | STC | NMOT | STC | NMOT |
| Maximum power (Pmax) | 585W | 442W | 590W | 446W | 595W | 450W | 600W | 454W | 605W | 458W |
| Open Circuit Voltage (Voc) | 41.42V | 38.59V | 41.58V | 38.82V | 41.76V | 39.05V | 41.94V | 39.29V | 42.11V | 39.52V |
| Short Circuit Current (Isc) | 18.18A | 14.72A | 18.24A | 14.76A | 18.29A | 14.80A | 18.35A | 14.84A | 18.40A | 14.88A |
| Voltage at Maximum power (Vmpp) | 34.19V | 31.64V | 34.38V | 31.83V | 34.57V | 32.03V | 34.76V | 32.22V | 34.95V | 32.41V |
| Current Maximum Power (Impp) | 17.11A | 13.97A | 17.16A | 14.01A | 17.21A | 14.05A | 17.26A | 14.09A | 17.31A | 14.13A |
| MODULE EFFICIENCY (%) | 20.67% | | 20.85% | | 21.02% | | 21.20% | | 21.38% | |

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

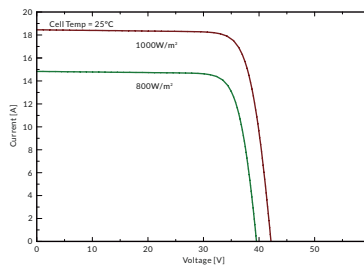
BIFACIAL OUTPUT-REAR SIDE POWER GAIN

| Gain | Parameter | LNEK-585MD | LNEK-590MD | LNEK-595MD | LNEK-600MD | LNEK-605MD |
|------|---------------------------|------------|------------|------------|------------|------------|
| 5% | Maximum power (Pmax) | 614W | 620W | 625W | 630W | 635W |
| | Module Efficiency STC (%) | 21.70% | 21.89% | 22.08% | 22.26% | 22.45% |
| 15% | Maximum power (Pmax) | 673W | 679W | 684W | 690W | 696W |
| | Module Efficiency STC (%) | 23.77% | 23.97% | 24.18% | 24.38% | 24.58% |
| 25% | Maximum Power (Pmax) | 731W | 738W | 744W | 750W | 756W |
| | Module Efficiency STC (%) | 25.84% | 26.06% | 26.28% | 26.50% | 26.72% |

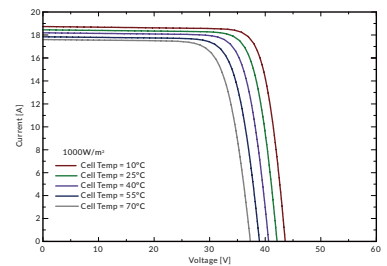
PACKING CONFIGURATION

| | |
|-----------------------|-------|
| Container | 40'HQ |
| Pieces per pallet | 32 |
| Pallets per container | 18 |
| Pieces per container | 576 |

I-V CURVE



LNEK-605MB/I-V



OPERATING CHARACTERISTICS

| | |
|------------------------------|----------------|
| Operating Module Temperature | -40°C to +85°C |
| Maximum System Voltage | 1500 DC (IEC) |
| Maximum Series Fuse Rating | 35A |
| Power Tolerance | 0/+5W |

TEMPERATURE CHARACTERISTICS

| | |
|--------------------------------------|-----------|
| Nominal Operating Temperature (NMOT) | 43±2°C |
| Temperature Coefficient of Pmax | -0.34%/°C |
| Temperature Coefficient of Voc | -0.25%/°C |
| Temperature Coefficient of Isc | +0.04%/°C |

Note: The specifications, data and technical characteristics provided in this data sheet are subject to changes due to continuous R&D, product innovation and improvement. LUXEN SOLAR reserves the right to modify the information any time without prior notice.