

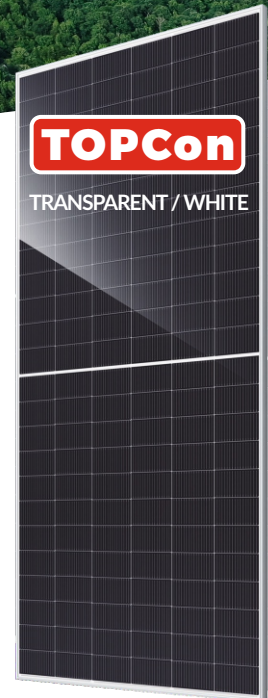
# LUXPOWER® SERIES N5



## 620-640W Mono BIFACIAL DG

### 144 Half-Cell Layout

### M10R N-TOPCon Cell



LECO N-TOPCon Cell Technology



SMBB Half Cut Cell Technology



Bifacial Cell Module Technologies



Excellent Anti-PID Low LID Performance

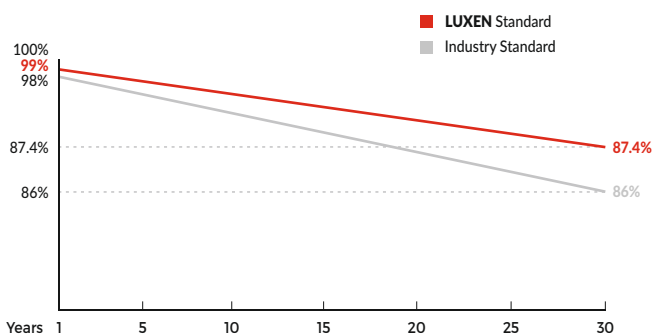


Less Hot Spot Shading Effects



Higher Power Output Lower BOS & LCOE

### Linear Performance Warranty



\* LUXEN TOPCon: Standard warranty 15 years, can be extended up to 20 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

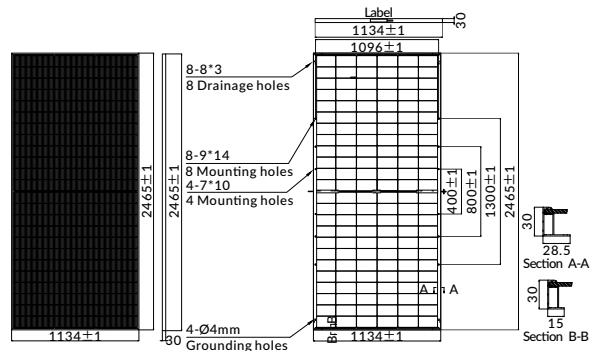
Production HQ: No.1, Haiyue Road, Nantong, Jiangsu, 226000, China

europa@luxensolar.at

www.luxensolar.com

MECHANICAL CHARACTERISTICS

|                      |                                  |
|----------------------|----------------------------------|
| Solar Cells          | N-type Mono                      |
| No. of Cells         | 144 (6x24)                       |
| Dimensions           | 2465 x 1134 x 30mm               |
| Weight               | 34.5kg                           |
| 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 <sup>2</sup>               |
| Output Cables        | 280mm (+) / 350mm (-)            |
|                      | Length can be customized         |
| Connectors           | Mc4 compatible                   |
| Mechanical load test | 5400Pa                           |



ELECTRICAL PARAMETERS

| POWER CLASS                     | LNCU-620ND |        | LNCU-625ND |        | LNCU-630ND |        | LNCU-635ND |        | LNCU-640ND |        |
|---------------------------------|------------|--------|------------|--------|------------|--------|------------|--------|------------|--------|
|                                 | STC        | NMOT   | STC        | NMOT   | STC        | NMOT   | STC        | NMOT   | STC        | NMOT   |
| Maximum power (Pmax)            | 620W       | 467W   | 625W       | 471W   | 630W       | 475W   | 635W       | 479W   | 640W       | 483W   |
| Open Circuit Voltage (Voc)      | 51.65V     | 48.68V | 51.84V     | 48.88V | 52.03V     | 49.08V | 52.22V     | 49.28V | 52.41V     | 49.48V |
| Short Circuit Current (Isc)     | 15.12A     | 12.10A | 15.18A     | 12.14A | 15.24A     | 12.19A | 15.30A     | 12.24A | 15.36A     | 12.29A |
| Voltage at Maximum power (Vmpp) | 43.51V     | 40.96V | 43.68V     | 41.14V | 43.84V     | 41.32V | 44.01V     | 41.49V | 44.17V     | 41.67V |
| Current Maximum Power (Impp)    | 14.25A     | 11.40A | 14.31A     | 11.45A | 14.37A     | 11.50A | 14.43A     | 11.54A | 14.49A     | 11.59A |
| MODULE EFFICIENCY (%)           | 22.18%     |        | 22.36%     |        | 22.54%     |        | 22.72%     |        | 22.90%     |        |

STC: Irradiance 1000W/m<sup>2</sup>, cell temperature 25°C, AM1.5G    NMOT: Irradiance 800W/m<sup>2</sup>, ambient temperature 20°C, wind speed 1m/s, AM1.5G

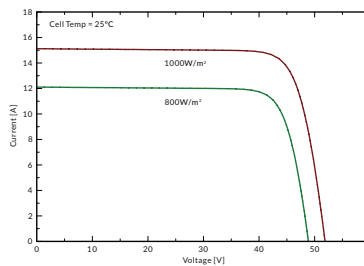
BIFACIAL OUTPUT-REARSIDE POWER GAIN

|     |                           | LNCU-620ND | LNCU-625ND | LNCU-630ND | LNCU-635ND | LNCU-640ND |
|-----|---------------------------|------------|------------|------------|------------|------------|
| 5%  | Maximum power (Pmax)      | 651W       | 656W       | 662W       | 667W       | 672W       |
|     | Module Efficiency STC (%) | 23.29%     | 23.48%     | 23.66%     | 23.85%     | 24.04%     |
| 15% | Maximum power (Pmax)      | 713W       | 719W       | 725W       | 730W       | 736W       |
|     | Module Efficiency STC (%) | 25.51%     | 25.71%     | 25.92%     | 26.12%     | 26.33%     |
| 25% | Maximum Power (Pmax)      | 775W       | 781W       | 788W       | 794W       | 800W       |
|     | Module Efficiency STC (%) | 27.73%     | 27.95%     | 28.17%     | 28.40%     | 28.62%     |

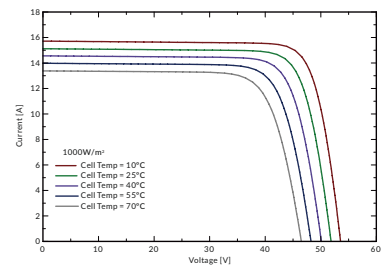
PACKING CONFIGURATION

|                       |       |
|-----------------------|-------|
| Container             | 40'HQ |
| Pieces per pallet     | 36    |
| Pallets per container | 16    |
| Pieces per container  | 576   |

I-V CURVE



LNCU-625ND/I-V



OPERATING CHARACTERISTICS

|                              |                |
|------------------------------|----------------|
| Operating Module Temperature | -40°C to +85°C |
| Maximun System Voltage       | 1500 DC (IEC)  |
| Maximun Series Fuse Rating   | 30A            |
| Power Tolerance              | 0/+5W          |

TEMPERATURE CHARACTERISTICS

|                                      |            |
|--------------------------------------|------------|
| Nominal Operating Temperature (NMOT) | 45±2°C     |
| Temperature Coefficient of Pmax      | -0.29%/°C  |
| Temperature Coefficient of Voc       | -0.25%/°C  |
| Temperature Coefficient of Isc       | +0.045%/°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.