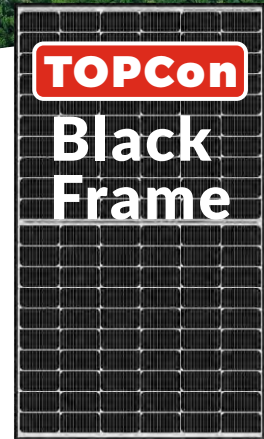


# LUXPOWER® SERIES **N**5

## 460-480W Mono BIFACIAL DG

### 120 Half-Cell Layout

### M10/182mm N-TOPCon Cell



N-TOPCon Cell Technology



SMBB Half Cut Cell Technology



Bifacial Cell Module Technologies



Excellent Anti-PID Low LID Performance

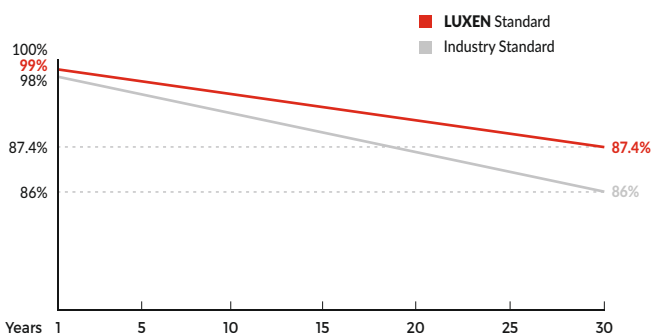


Less Hot Spot Shading Effects



Higher Power Output Lower BOS & LCOE

### Linear performance Warranty



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

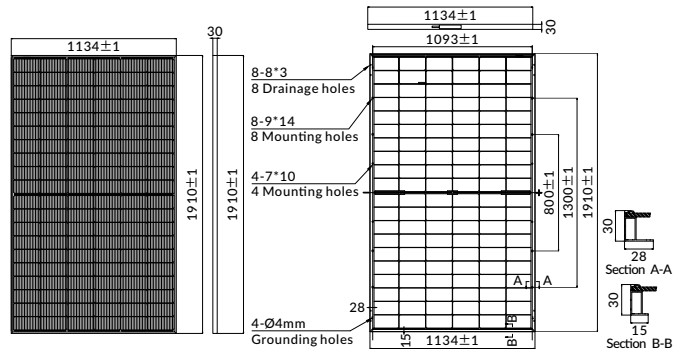
### Comprehensive Certificates

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



MECHANICAL CHARACTERISTICS

|                      |                                  |
|----------------------|----------------------------------|
| Solar Cells          | N-type Mono                      |
| No. of Cells         | 120 (6x20)                       |
| Dimensions           | 1910 x 1134 x 30mm               |
| Weight               | 26.0kg                           |
| 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        | 1200mm (+) / 1200mm (-)          |
|                      | Length can be customized         |
| Connectors           | Mc4 compatible                   |
| Mechanical load test | 5400Pa                           |



ELECTRICAL PARAMETERS

| POWER CLASS                     | LNVK-460ND | LNVK-465ND | LNVK-470ND | LNVK-475ND | LNVK-480ND |
|---------------------------------|------------|------------|------------|------------|------------|
|                                 | STC        | STC        | STC        | STC        | STC        |
| Maximum power (Pmax)            | 460W       | 465W       | 470W       | 475W       | 480W       |
| Open Circuit Voltage (Voc)      | 42.51V     | 42.72V     | 42.94V     | 43.15V     | 43.36V     |
| Short Circuit Current (Isc)     | 13.88A     | 13.95A     | 14.02A     | 14.09A     | 14.16A     |
| Voltage at Maximum power (Vmpp) | 34.93V     | 35.12V     | 35.31V     | 35.50V     | 35.69V     |
| Current Maximum Power (Impp)    | 13.17A     | 13.24A     | 13.31A     | 13.38A     | 13.45A     |
| MODULE EFFICIENCY (%)           | 21.24%     | 21.47%     | 21.70%     | 21.93%     | 22.16%     |

STC: Irradiance 1000W/m<sup>2</sup>, cell temperature 25°C, AM1.5G

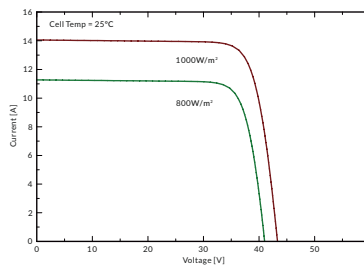
BIFACIAL OUTPUT-REAR SIDE POWER GAIN

|     |                           | LNVK-460ND | LNVK-465ND | LNVK-470ND | LNVK-475ND | LNVK-480ND |
|-----|---------------------------|------------|------------|------------|------------|------------|
| 5%  | Maximum power (Pmax)      | 483W       | 488W       | 494W       | 499W       | 504W       |
|     | Module Efficiency STC (%) | 22.30%     | 22.54%     | 22.78%     | 23.03%     | 23.27%     |
| 15% | Maximum power (Pmax)      | 529W       | 535W       | 541W       | 546W       | 552W       |
|     | Module Efficiency STC (%) | 24.42%     | 24.69%     | 24.95%     | 25.22%     | 25.49%     |
| 25% | Maximum Power (Pmax)      | 575W       | 581W       | 588W       | 594W       | 600W       |
|     | Module Efficiency STC (%) | 26.55%     | 26.84%     | 27.12%     | 27.41%     | 27.70%     |

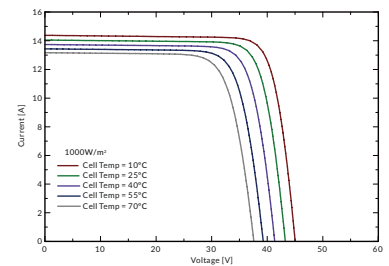
PACKING CONFIGURATION

|                       |       |       |
|-----------------------|-------|-------|
| Container             | 20'GP | 40'HQ |
| Pieces per pallet     | 36    | 36    |
| Pallets per container | 6     | 24    |
| Pieces per container  | 216   | 864   |

I-V CURVE



LNVK-475ND/I-V



OPERATING CHARACTERISTICS

|                              |                |
|------------------------------|----------------|
| Operating Module Temperature | -40°C to +85°C |
| Maximum System Voltage       | 1500 DC (IEC)  |
| Maximum 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.