

# LUXPOWER® SERIES **N** 5

## 560-580W Mono BIFACIAL DG

132 Half-Cell Layout  
M10/182mm N-TOPCon Cell



LECO N-TOPCon Cell Technology



SMBB Half Cut Cell Technology



Bifacial Cell Module Technologies



Excellent Anti-PID Low LID Performance

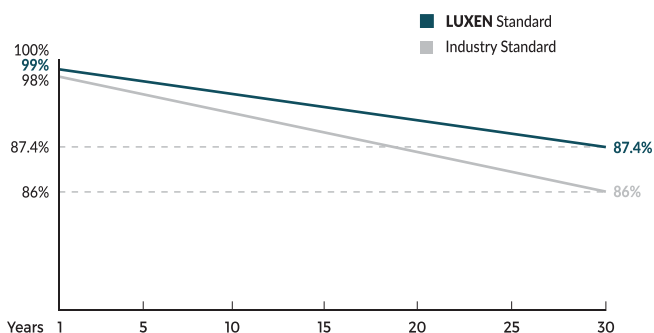


Less Hot Spot Shading Effects



Higher Power Output Lower BOS & LCOE

### Linear performance Warranty



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

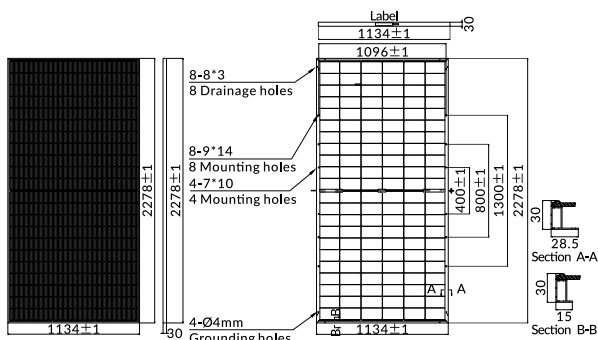
### Comprehensive Certificates

- 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         | 132 (6x22)                       |
| Dimensions           | 2278 x 1134 x 30mm               |
| Weight               | 31.5kg                           |
| 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                     | STCT-560ND |        | STCT-565ND |        | STCT-570ND |        | STCT-575ND |        | STCT-580ND |        |
|---------------------------------|------------|--------|------------|--------|------------|--------|------------|--------|------------|--------|
|                                 | STC        | NMOT   | STC        | NMOT   | STC        | NMOT   | STC        | NMOT   | STC        | NMOT   |
| Maximum power (Pmax)            | 560W       | 421W   | 565W       | 425W   | 570W       | 429W   | 575W       | 433W   | 580W       | 437W   |
| Open Circuit Voltage (Voc)      | 47.24V     | 44.37V | 47.45V     | 44.60V | 47.66V     | 44.83V | 47.86V     | 45.05V | 48.07V     | 45.28V |
| Short Circuit Current (Isc)     | 15.03A     | 12.02A | 15.09A     | 12.07A | 15.15A     | 12.12A | 15.21A     | 12.17A | 15.27A     | 12.22A |
| Voltage at Maximum power (Vmpp) | 39.55V     | 37.16V | 39.73V     | 37.36V | 39.92V     | 37.55V | 40.10V     | 37.74V | 40.28V     | 37.93V |
| Current Maximum Power (Impp)    | 14.16A     | 11.33A | 14.22A     | 11.38A | 14.28A     | 11.42A | 14.34A     | 11.47A | 14.40A     | 11.52A |
| MODULE EFFICIENCY (%)           | 21.68%     |        | 21.87%     |        | 22.07%     |        | 22.26%     |        | 22.45%     |        |

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

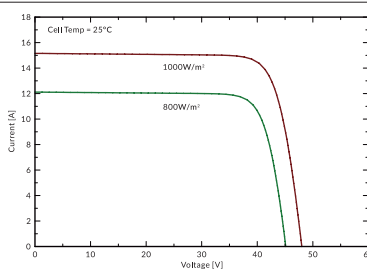
## BIFACIAL OUTPUT-REAR SIDE POWER GAIN

|     |                           |        |        |        |        |        |
|-----|---------------------------|--------|--------|--------|--------|--------|
| 5%  | Maximum power (Pmax)      | 588W   | 593W   | 599W   | 604W   | 609W   |
|     | Module Efficiency STC (%) | 22.76% | 22.97% | 23.17% | 23.37% | 23.57% |
| 15% | Maximum power (Pmax)      | 644W   | 650W   | 656W   | 661W   | 667W   |
|     | Module Efficiency STC (%) | 24.93% | 25.15% | 25.37% | 25.60% | 25.82% |
| 25% | Maximum Power (Pmax)      | 700W   | 706W   | 713W   | 719W   | 725W   |
|     | Module Efficiency STC (%) | 27.10% | 27.34% | 27.58% | 27.82% | 28.07% |

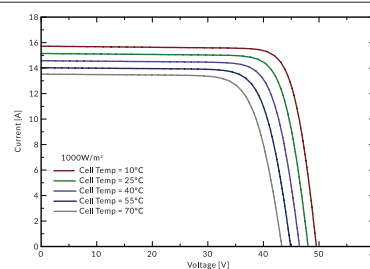
## PACKING CONFIGURATION

|                       |       |
|-----------------------|-------|
| Container             | 40'HQ |
| Pieces per pallet     | 36    |
| Pallets per container | 20    |
| Pieces per container  | 720   |

## I-V CURVE



## LNCT-575ND/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. **TEXSOLAR** reserves the right to modify the information any time without prior notice.