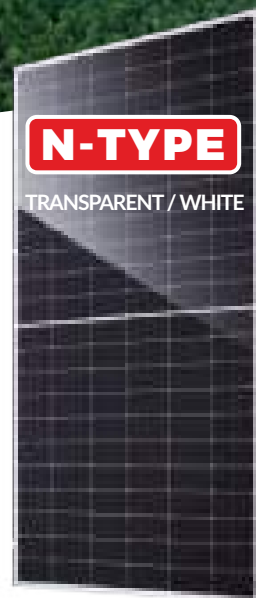


# LUXPOWER® SERIES **N**5



**565-585W** Mono BIFACIAL DG  
132 Half-Cell Layout  
M10R N-TYPE Cell



LECO N-TYPE  
Cell Technology



SMBB Half Cut  
Cell Technology



Bifacial Cell  
Module Technologies



Excellent  
Anti-PID  
Low LID  
Performance

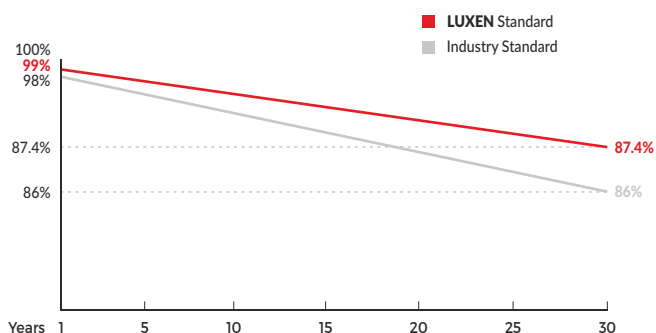


Less Hot Spot  
Shading Effects



Higher Power Output  
Lower BOS & LCOE

## Linear Performance Warranty



\* LUXEN N-TYPE: 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



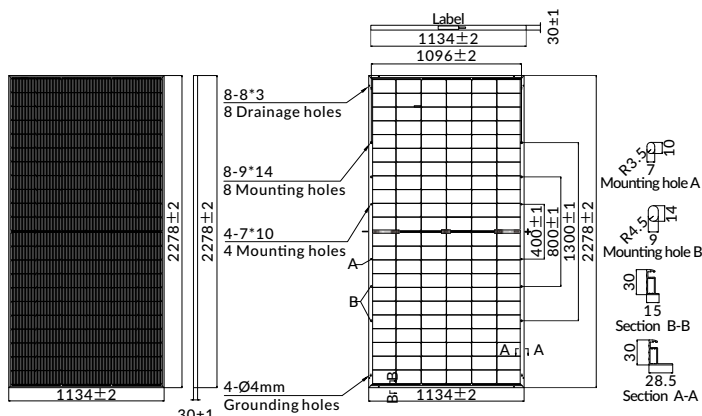
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## MECHANICAL CHARACTERISTICS

|                      |                                                          |
|----------------------|----------------------------------------------------------|
| Solar Cells          | N-type Mono                                              |
| No. of Cells         | 132 (6x22)                                               |
| Dimensions           | 2278 x 1134 x 30mm                                       |
| Weight               | 31.5kg                                                   |
| Front / Back Glass   | 2.0mm coated semi-tempered glass                         |
| Frame                | Anodized aluminium alloy (reinforced high-load optional) |
| Junction Box         | Ip68 rated (3 by pass diodes)                            |
|                      | 4.0mm <sup>2</sup>                                       |
| Output Cables        | 250mm (+) / 350mm (-)                                    |
|                      | Length can be customized                                 |
| Connectors           | Mc4 compatible                                           |
| Mechanical load test | Front 5400Pa / Rear 2400Pa                               |



## ELECTRICAL PARAMETERS

| POWER CLASS                     | LNCT-565ND |        | LNCT-570ND |        | LNCT-575ND |        | LNCT-580ND |        | LNCT-585ND |        |
|---------------------------------|------------|--------|------------|--------|------------|--------|------------|--------|------------|--------|
|                                 | STC        | NMOT   | STC        | NMOT   | STC        | NMOT   | STC        | NMOT   | STC        | NMOT   |
| Maximum power (Pmax)            | 565W       | 425W   | 570W       | 429W   | 575W       | 433W   | 580W       | 437W   | 585W       | 441W   |
| Open Circuit Voltage (Voc)      | 47.45V     | 44.60V | 47.66V     | 44.83V | 47.86V     | 45.05V | 48.07V     | 45.28V | 48.27V     | 45.50V |
| Short Circuit Current (Isc)     | 15.09A     | 12.07A | 15.15A     | 12.12A | 15.21A     | 12.17A | 15.27A     | 12.22A | 15.33A     | 12.26A |
| Voltage at Maximum power (Vmpp) | 39.73V     | 37.36V | 39.92V     | 37.55V | 40.10V     | 37.74V | 40.28V     | 37.93V | 40.46V     | 38.12V |
| Current Maximum Power (Impp)    | 14.22A     | 11.38A | 14.28A     | 11.42A | 14.34A     | 11.47A | 14.40A     | 11.52A | 14.46A     | 11.57A |
| MODULE EFFICIENCY (%)           | 21.87%     |        | 22.07%     |        | 22.26%     |        | 22.45%     |        | 22.65%     |        |

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

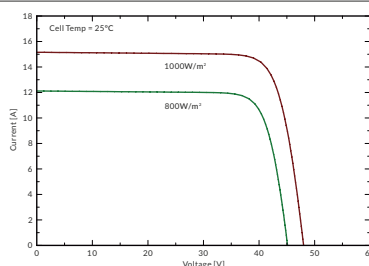
## BIFACIAL OUTPUT-REAR SIDE POWER GAIN

|     |                           |        |        |        |        |        |
|-----|---------------------------|--------|--------|--------|--------|--------|
| 5%  | Maximum power (Pmax)      | 593W   | 599W   | 604W   | 609W   | 614W   |
|     | Module Efficiency STC (%) | 22.97% | 23.17% | 23.37% | 23.57% | 23.78% |
| 15% | Maximum power (Pmax)      | 650W   | 656W   | 661W   | 667W   | 673W   |
|     | Module Efficiency STC (%) | 25.15% | 25.37% | 25.60% | 25.82% | 26.04% |
| 25% | Maximum Power (Pmax)      | 706W   | 713W   | 719W   | 725W   | 731W   |
|     | Module Efficiency STC (%) | 27.34% | 27.58% | 27.82% | 28.07% | 28.31% |

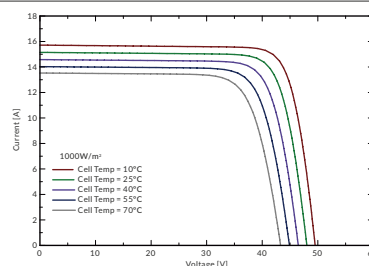
## PACKING CONFIGURATION

|                       |       |
|-----------------------|-------|
| 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 technical parameters included in this datasheet may have minor deviations, and Luxen does not guarantee absolute accuracy. Due to ongoing product innovation and enhancements, Luxen reserves the right to modify the information in this manual at any time without prior notice. Customers should obtain the latest version of the technical manual when signing the contract, and it shall be considered an integral part of the binding contract between the parties. Please note that qualified professionals should handle and install solar modules to ensure optimal module performance.