

LUXPOWER® SERIES N5



565-585W Mono BIFACIAL DG
132 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

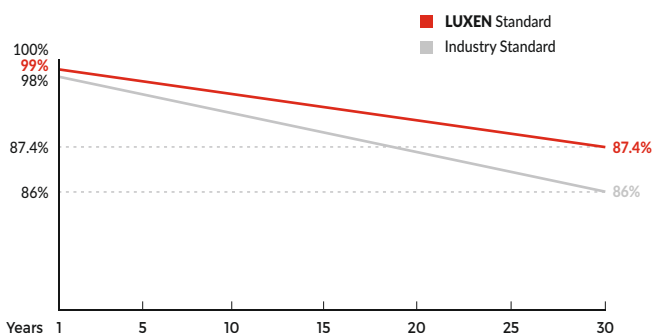


Less Hot Spot Shading Effects



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



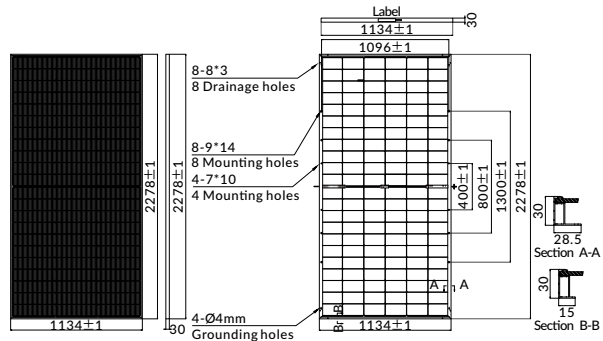
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MECHANICAL CHARACTERISTICS

| | |
|----------------------|----------------------------------|
| Solar Cells | N-type Mono |
| No. of Cells | 132 (6x22) |
| Dimensions | 2278 x 1134 x 30mm |
| Weight | 31.5kg |
| Front Glass | 2.0mm coated semi-tempered glass |
| Back Glass | 2.0mm semi-tempered glass |
| Junction Box | Ip68 rated (3 by pass diodes) |
| | 4.0mm ² |
| Output Cables | 280mm (+) / 350mm (-) |
| | Length can be customized |
| Connectors | Mc4 compatible |
| Mechanical load test | 5400Pa |



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

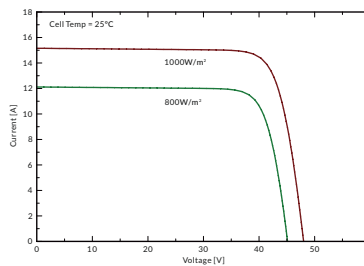
BIFACIAL OUTPUT-REAR SIDE POWER GAIN

| | | LNCT-565ND | LNCT-570ND | LNCT-575ND | LNCT-580ND | LNCT-585ND |
|-----|---------------------------|------------|------------|------------|------------|------------|
| 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% |

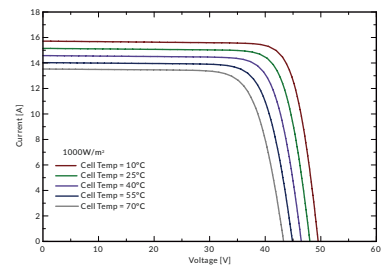
PACKING CONFIGURATION

| | |
|-----------------------|-------|
| 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 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.