



# LUXOR

solar module manufacturer since 2007



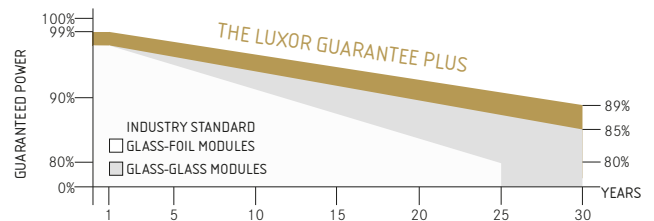
- + POWERFUL N-TYPE TOPCON CELLS
- + DOUBLE GLASS: HIGHER MECHANICAL STABILITY AND FIRE SAFETY
- + BIFACIAL: DOUBLE-SIDED POWER GENERATION FOR MORE YIELD
- + REDUCTION OF BALANCE-OF-SYSTEM-COSTS THROUGH HIGHER PERFORMANCE PER MODULE
- + APPLICATION: WHEREVER LONGEVITY AND ROBUSTNESS ARE REQUIRED



product guarantee<sup>1</sup>



linear performance guarantee<sup>1</sup>



## ECO LINE N-TYPE TOPCON GLASS-GLASS BIF

### M132 / 600 - 620W

MONOCRYSTALLINE N-TYPE MODULE FAMILY, WHITE MESH



Longlife tested



Power proofed



Safety provided



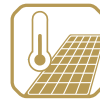
Selection of components



Back glass



Performance surplus of 0 Wp to 6.49 Wp



Higher heat dispensing



PID free  
LID Free



German warrantor

# ECO LINE N-TYPE TOPCON GLASS-GLASS BIF

## M132 / 600 - 620 W, WHITE MESH

Module type LX - XXX M/182R-132+ GG | XXX = Rated power P<sub>mpp</sub>

### Electrical data at STC

|   | 600.00 | 605.00 | 610.00 | 615.00 | 620.00 |
|---|--------|--------|--------|--------|--------|
| Rated power P <sub>mpp</sub> [Wp]         | 600.00 | 605.00 | 610.00 | 615.00 | 620.00 |
| P <sub>mpp</sub> range to                 | 606.49 | 611.49 | 616.49 | 621.49 | 626.49 |
| Rated current I <sub>mpp</sub> [A]        | 15.21  | 15.27  | 15.32  | 15.37  | 15.42  |
| Rated voltage V <sub>mpp</sub> [V]        | 39.46  | 39.65  | 39.84  | 40.03  | 40.22  |
| Short-circuit current I <sub>sc</sub> [A] | 16.08  | 16.14  | 16.19  | 16.25  | 16.30  |
| Open-circuit voltage U <sub>oc</sub> [V]  | 47.77  | 48.00  | 48.23  | 48.46  | 48.69  |
| Efficiency at STC up to                   | 22.45% | 22.64% | 22.82% | 23.01% | 23.19% |
| Efficiency at 200 W/m <sup>2</sup>        | 21.98% | 22.18% | 22.36% | 22.54% | 22.72% |

### Electrical data at NOCT

|   |        |        |        |        |        |
|---|--------|--------|--------|--------|--------|
| Power at P <sub>mpp</sub> [Wp]            | 452.16 | 455.93 | 459.70 | 463.46 | 467.23 |
| Rated current I <sub>mpp</sub> [A]        | 12.28  | 12.33  | 12.37  | 12.41  | 12.45  |
| Rated voltage V <sub>mpp</sub> [V]        | 36.82  | 36.98  | 37.16  | 37.35  | 37.53  |
| Short-circuit current I <sub>sc</sub> [A] | 12.98  | 13.03  | 13.07  | 13.12  | 13.16  |
| Open-circuit voltage U <sub>oc</sub> [V]  | 44.09  | 44.32  | 44.55  | 44.77  | 45.00  |

Specification as per STC (Standard test conditions): irradiance 1000W/m<sup>2</sup> | module temperature 25°C | Air Mass = 1.5  
 NOCT (nominal operating cell temperature): irradiance 800W/m<sup>2</sup> | wind speed 1 m/sec | ambient temperature 20°C | cell operating temperature 45 +/- 2°C | Air Mass = 1.5

### Bifacial Gain\* (e.g. 610 Wp)

|   | 5%     | 10%    | 15%    | 20%    | 25%    |
|---|--------|--------|--------|--------|--------|
| Backside power gain [Wp]                  |        |        |        |        |        |
| Rated power P <sub>mpp</sub> [Wp]         | 640.50 | 671.00 | 701.50 | 732.00 | 762.50 |
| Rated current I <sub>mpp</sub> [A]        | 16.08  | 16.84  | 17.61  | 18.37  | 19.13  |
| Rated voltage V <sub>mpp</sub> [V]        | 39.84  | 39.84  | 39.84  | 39.85  | 39.85  |
| Short-circuit current I <sub>sc</sub> [A] | 17.00  | 17.81  | 18.62  | 19.43  | 20.24  |
| Open-circuit voltage U <sub>oc</sub> [V]  | 48.23  | 48.23  | 48.23  | 48.24  | 48.24  |

\*depending on the reflection of the underlying surface

### Limiting values

|   |                                 |
|---|---------------------------------|
| Max. system voltage   max. return current       | 1000 V or 1500 V   30 A         |
| Safety class   Fire safety class                | II   C (according to IEC 61730) |
| Operating Temperature                           | -40 up to 85°C                  |
| Max. tested pressure load-/tensile <sup>2</sup> | 5400 Pa / 2400 Pa               |

### Temperature coefficient

|   |   |
|---|---|
| Temperature coefficient [U]   [I]   [P] | -0.25 % /°C   0.045 % /°C   -0.29 % /°C |
|---|---|

### Specifications

|   |  |
|---|--|
| Cells (matrix)   Wafer   Type                       | 132 (6 x 22)   M10   N-Type TOPCon                               |
| Bifaciality factor <sup>5</sup>                     | Up to 80 %   |
| Module dimensions (L x W x H) <sup>3</sup>   Weight | 2382 mm x 1134 mm x 30 mm   33.5 kg                              |
| Front-side glass                                    | 2 mm highly transparent, anti-reflection solar glass             |
| Back-side   | 2 mm highly transparent solar glass, white mesh                  |
| Frame   | Stable, anodised aluminium frame                                 |
| Embedding material                                  | POE / EVA  |
| Junction Box   Diodes                               | At least IP67   3 Schottky Diodes                                |
| Cable   | Symmetrical cable lengths > 1.4 m, 4 mm <sup>2</sup> solar cable |
| Connectors  | MC4 or equivalent with IP67                                      |
| Hail test (max. hailstorm)                          | Ø 45 mm   impact velocity 23 m/s ± 83 km/h                       |

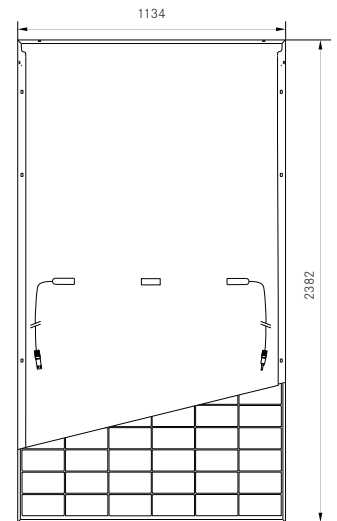
The specifications and average values can vary slightly. Relevant is the corresponding data of the individual measurement. Specifications are subject to change without notice. Measurement tolerance depending on equipment: rated power +/- 3%, other values +/- 10%. All information given in this data sheet corresponds to DIN EN 50380. A potential light-induced degradation of the power after commissioning is not considered here.

Further information in the installation manuals.

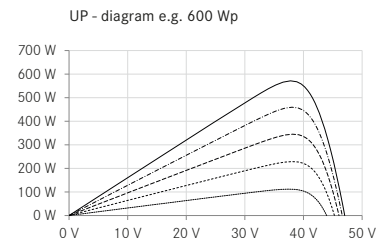
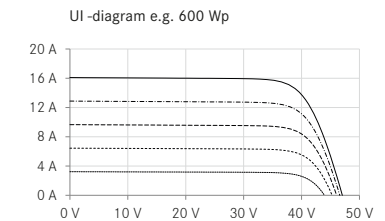
- The specific warranty conditions are given under [www.luxor.solar/downloads.html](http://www.luxor.solar/downloads.html)
- Horizontal mounted, for details please check mounting instruction
- Tolerance L/W = +/- 3 mm, H +/- 2 mm, the dimensions given in the order confirmation will be decisive
- Location and dimensios of holes on request
- N-Type TOPCon Bifaciality 77 % +/- 3 %

Luxor, your specialised company

### Back - / Frontview<sup>3,4</sup>



### Electrical characteristics



..... 200W/m<sup>2</sup>  
 - - - 400W/m<sup>2</sup>  
 - - - 600W/m<sup>2</sup>  
 - - - 800W/m<sup>2</sup>  
 ——— 1000W/m<sup>2</sup>



Guidelines:  
 93/68/EEC  
 2014/35/EU, (LVD)  
 2014/30/EU, (EMC)

The validity of the certificates/listings for a specific country has to be examined under: [www.luxor.solar/downloads.html](http://www.luxor.solar/downloads.html)