

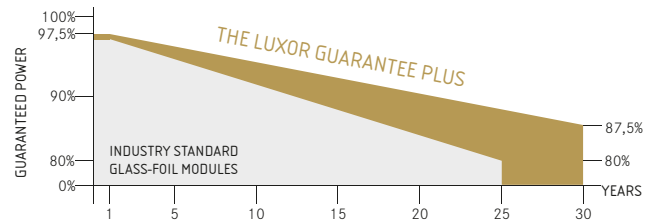
- + APPLICABLE ACCORDING TO DIN18008 ABZ/ABG: Z-70.3-306
- + DOUBLE GLASS: HIGHER MECHANICAL STABILITY AND FIRE SAFETY
- + BIFACIAL: DOUBLE-SIDED POWER GENERATION FOR MORE YIELD
- + APPLICATION: WHEREVER LONGEVITY AND ROBUSTNESS ARE REQUIRED
- + FOR PUBLICLY ACCESSIBLE AREAS LIKE PROMENADES AND CAR PARKS



product guarantee¹



linear performance guarantee¹



ECO LINE SECURE GLASS-GLASS BIFACIAL

M108 / 395 - 415W

MONOCRYSTALLINE MODULE FAMILY, BLACK FRAME, TRANSPARENT



Longlife tested



Power proofed



Safety provided



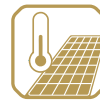
Selection of components



Cross-linking degree test



Performance surplus of 0 Wp to 6.49 Wp



Higher heat dispensing



100 % PID free cells



German warrantor

ECO LINE SECURE GLASS-GLASS BIFACIAL

M108 / 395-415 W, BLACK FRAME, TRANSPARENT

Module type LX - XXXM/182-108+ GG BiF | XXX = Rated power Pmpp

Electrical data at STC

| | | | | | |
|------------------------------------|--------|--------|--------|--------|--------|
| Rated power Pmpp [Wp] | 395.00 | 400.00 | 405.00 | 410.00 | 415.00 |
| Pmpp range to | 401.49 | 406.49 | 411.49 | 416.49 | 421.49 |
| Rated current Impp [A] | 12.80 | 12.88 | 12.95 | 13.02 | 13.09 |
| Rated voltage Vmpp [V] | 30.89 | 31.09 | 31.30 | 31.51 | 31.72 |
| Short-circuit current Isc [A] | 13.52 | 13.60 | 13.67 | 13.75 | 13.82 |
| Open-circuit voltage Uoc [V] | 36.77 | 37.01 | 37.26 | 37.51 | 37.76 |
| Efficiency at STC up to | 20.19% | 20.44% | 20.69% | 20.94% | 21.19% |
| Efficiency at 200 W/m ² | 19.65% | 19.91% | 20.15% | 20.39% | 20.64% |

Electrical data at NOCT

| | | | | | |
|-------------------------------|--------|--------|--------|--------|--------|
| Power at Pmpp [Wp] | 293.25 | 296.96 | 300.67 | 304.38 | 308.10 |
| Rated current Impp [A] | 10.34 | 10.40 | 10.46 | 10.52 | 10.57 |
| Rated voltage Vmpp [V] | 28.36 | 28.54 | 28.74 | 28.94 | 29.14 |
| Short-circuit current Isc [A] | 10.92 | 10.99 | 11.05 | 11.11 | 11.17 |
| Open-circuit voltage Uoc [V] | 33.94 | 34.18 | 34.42 | 34.66 | 34.90 |

Specification as per STC (Standard test conditions): irradiance 1000 W/m² | module temperature 25°C | Air Mass = 1.5
 NOCT (nominal operating cell temperature): irradiance 800 W/m² | wind speed 1 m/sec | ambient temperature 20°C | cell operating temperature 45 +/- 2°C | Air Mass = 1.5

Bifacial Gain* (e.g. 410 Wp)

| | | | | | |
|-------------------------------|--------|--------|--------|--------|--------|
| Backside power gain [Wp] | 5% | 10% | 15% | 20% | 25% |
| Rated power Pmpp [Wp] | 425.25 | 445.50 | 465.75 | 486.00 | 506.25 |
| Rated current Impp [A] | 13.60 | 14.25 | 14.90 | 15.54 | 16.19 |
| Rated voltage Vmpp [V] | 31.30 | 31.30 | 31.30 | 31.31 | 31.31 |
| Short-circuit current Isc [A] | 14.36 | 15.04 | 15.73 | 16.41 | 17.09 |
| Open-circuit voltage Uoc [V] | 37.26 | 37.26 | 37.26 | 37.27 | 37.27 |

*depending on the reflection of the underlying surface

Limiting values

| | |
|---|---------------------------------|
| Max. system voltage max. return current | 1500 V 25 A |
| Safety class Fire safety class | II C (according to IEC 61730) |
| Operating Temperature | -40 bis 85°C |
| Max. tested pressure load-/tensile ² | 5400 Pa / 2400 Pa |

Temperature coefficient

| | |
|---|--|
| Temperature coefficient [U] [I] [P] | -0.049% /°C 0.360% /°C -0.285% /°C |
|---|--|

Specifications

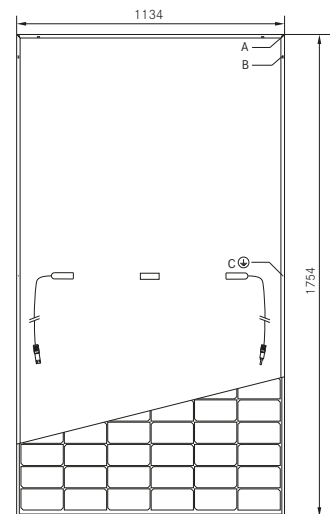
| | |
|---|--|
| Number of cells (matrix) | 108 (6 x 18) 182 mm x 91 mm |
| Module dimensions (L x W x H) ³ Weight | 1754 mm x 1134 mm x 30 mm 37 kg |
| Bifaciality factory Transparency | 75 +/- 5% approx. 7% |
| Front-side glass | 3.2 mm tempered highly transparent anti-reflection solar glass |
| Back-side glass | 3.2 mm tempered highly transparent solar glass |
| Frame | stable, anodised aluminium frame |
| Embedding material | POE (polyolefin elastomer) |
| Junction Box / Diodes | At least IP67 / 3 Schottky Diodes |
| Cable | Symmetrical cable lengths > 1.1 m and 1.1 m, 4 mm ² 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
- Horizontal mounted
- Tolerance L/W = +/- 3 mm. H +/- 2mm. the dimensions given in the order confirmation will be decisive
- Location and dimensios of holes on reques

Luxor. your specialised company

Back - / Front - / Side view³

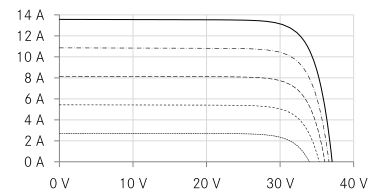


Drilled holes⁴

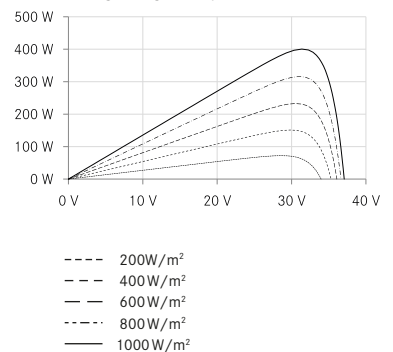
- A: 4 x drainage
- B: 16 x ventilation
- C: 8 x mounting
- D: 2 x earthing

Electrical characteristics

UI-diagram e.g. 400 Wp



UI-diagram e.g. 400 Wp



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