

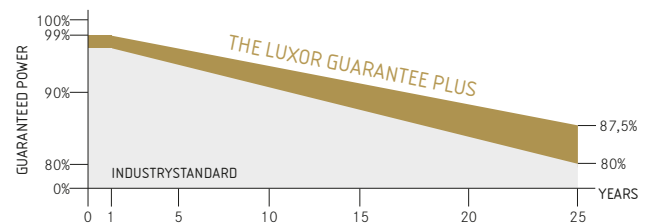
- + NON-REFLECT: SPECIAL GLASS FOR LEAST REFLECTION
- + POWERFUL N-TYPE TOPCON CELLS
- + REDUCTION OF BALANCE-OF-SYSTEM-COSTS THROUGH HIGHER PERFORMANCE PER MODULE
- + APPLICATIONS: COMMERCIAL AND RESIDENTIAL POWER PLANTS
- + HIGHER YIELD: MORE REFLECTION ON CELL SURFACE



product guarantee¹



linear performance guarantee¹



ECO LINE NON-REFLECT N-TYPE

M108 / 415 - 435W

MONOCRYSTALLINE N-TYPE MODULE FAMILY, BLACK FRAME



Longlife tested



Power proofed



Safety provided



Selection of components



Cross-linking degree test



Performance surplus of 0 Wp to 6.49 Wp



PID free LID Free



Special packing to avoid micro cracks in the cells



German warrantor

ECO LINE NON-REFLECT N-TYPE

M108 / 415 - 435 W, BLACK FRAME

Module type LX - XXX M/182-108+ | XXX = Rated power Pmpp

Electrical data at STC

| | 415.00 | 420.00 | 425.00 | 430.00 | 435.00 |
|------------------------------------|--------|--------|--------|--------|--------|
| Rated power Pmpp [Wp] | 415.00 | 420.00 | 425.00 | 430.00 | 435.00 |
| Pmpp range to | 421.49 | 426.49 | 431.49 | 436.49 | 441.49 |
| Rated current Impp [A] | 13.26 | 13.34 | 13.42 | 13.49 | 13.57 |
| Rated voltage Vmpp [V] | 31.32 | 31.51 | 31.70 | 31.89 | 32.08 |
| Short-circuit current Isc [A] | 13.99 | 14.07 | 14.16 | 14.23 | 14.31 |
| Open-circuit voltage Uoc [V] | 37.92 | 38.15 | 38.38 | 38.61 | 38.84 |
| Efficiency at STC up to | 21.58% | 21.84% | 22.10% | 22.35% | 22.61% |
| Efficiency at 200 W/m ² | 21.04% | 21.29% | 21.55% | 21.79% | 22.05% |

Electrical data at NOCT

| | 312.08 | 315.84 | 319.60 | 323.36 | 327.12 |
|-------------------------------|--------|--------|--------|--------|--------|
| Power at Pmpp [Wp] | 312.08 | 315.84 | 319.60 | 323.36 | 327.12 |
| Rated current Impp [A] | 10.70 | 10.77 | 10.83 | 10.89 | 10.95 |
| Rated voltage Vmpp [V] | 29.17 | 28.71 | 29.05 | 29.40 | 29.74 |
| Short-circuit current Isc [A] | 11.29 | 11.36 | 11.43 | 11.49 | 11.55 |
| Open-circuit voltage Uoc [V] | 35.00 | 35.22 | 35.45 | 35.67 | 35.90 |

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

Limiting values

| | |
|---|---------------------------------|
| Max. system voltage max. return current | 1000 V or 1500 V 25 A |
| Safety class Fire safety class | II C (according to IEC 61730) |
| Operating Temperature | -40 to 85°C |
| Max. tested pressure load-/tensile ² | 5400 Pa / 2400 Pa |

Temperature coefficient

| | |
|---|--|
| Temperature coefficient [U] [I] [P] | -0.25 % /°C 0.045 % /°C -0.3 % /°C |
|---|--|

Specifications

| | |
|---|--|
| Cells (matrix) Dimenstions Type | 108 (6 x 18) 182 mm N-Type Topcon |
| Module dimensions (L x W x H) ³ Weight | 1722 mm x 1134 mm x 30 mm 21,5 kg |
| Front-side | 3.2 mm special solar glass with Non-Reflect technology |
| Back-side | Foil backsheet |
| Frame | Stable, anodised aluminium frame |
| Embedding material | POE/EVA |
| Junction Box Diodes | At least IP67 3 Schottky Diodes |
| Cable | Symmetrical cable lengths > 1.1 m, 4 mm ² solar cable |
| Connectors | MC4 or equivalent with IP67 |
| Hail test (max. hailstorm) | ∅ 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.

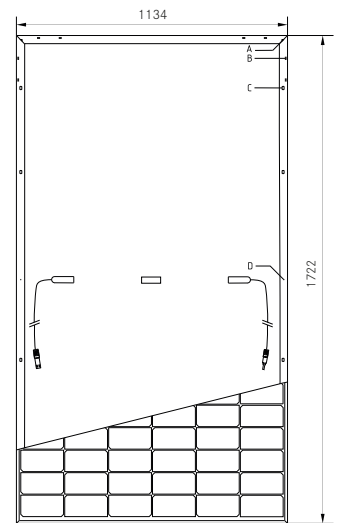
1 The specific warranty conditions are given under www.luxor-solar.com/download.htm

2 Horizontal mounted, for details please check mounting instruction

3 Tolerance L/W = +/- 3 mm, H +/- 2 mm, the dimensions given in the order confirmation will be decisive

4 Location and dimensios of holes on request

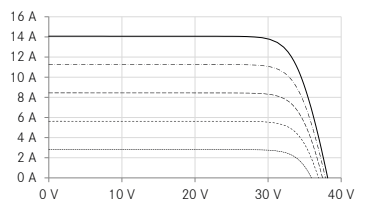
Back - / Frontview³



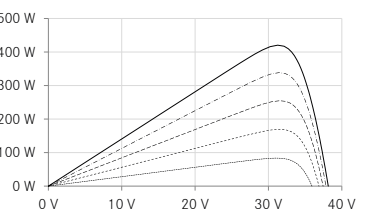
Drilled holes⁴
 A: 4 x drainage
 B: 16 x ventilation
 C: 8 x mounting
 D: 2 x earthing

Electrical characteristics

UI - diagram e.g. 420Wp



UP - diagram e.g. 420 Wp

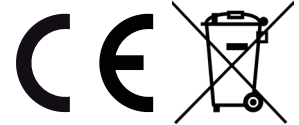


----- 200 W/m²
 - - - - 400 W/m²
 ——— 600 W/m²
 ····· 800 W/m²
 ——— 1000 W/m²

Luxor, your specialised company



IEC
 IEC 61215
 IEC 61730



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.com/downloads.html