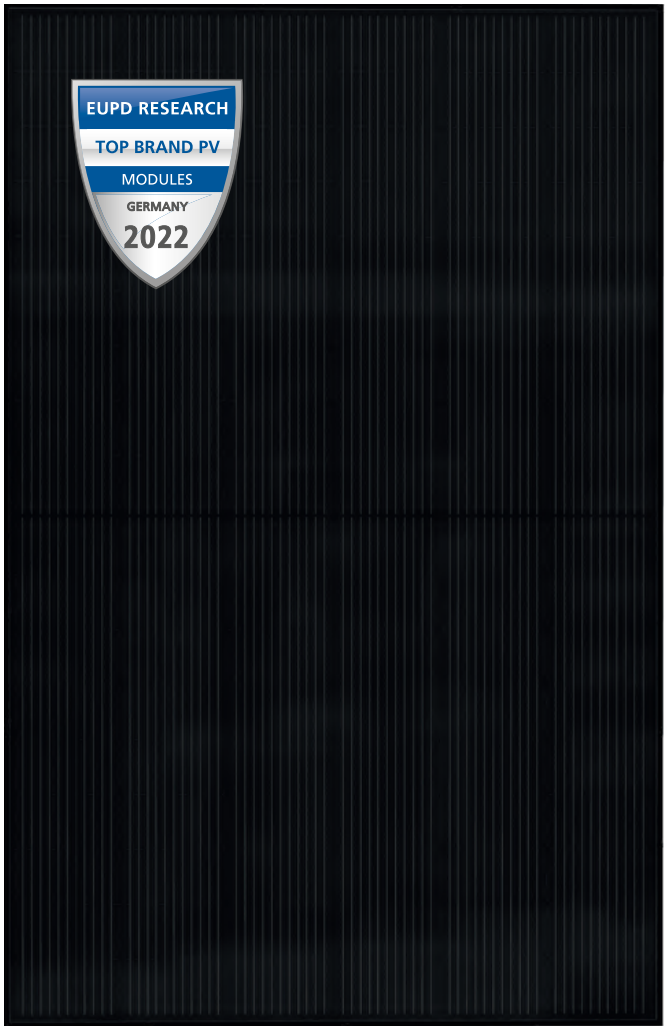
LUXOR

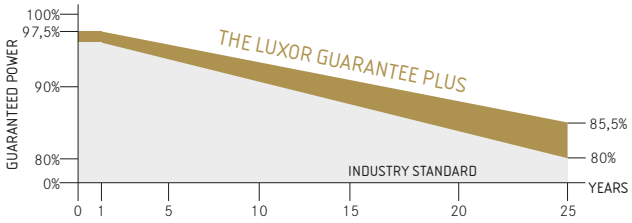
*solar module manufacturer since 2007*




- HIGHER YIELD: REDUCTION OF ELECTRICAL RESISTANCE
- REDUCED LOSSES DURING PARTIAL SHADING
- HIGH CLASS APPEARANCE: EASY INTEGRATION IN BUILDINGS
- APPLICATIONS: RESIDENTIAL
- ECO: ESPEACIALLY ECONOMIC AND RELIABLE

15 YEARS
product guarantee[1]

25 YEARS
linear performance guarantee[1]




# ECO LINE HALF CELL FULL BLACK

## M108 / 395 - 415 W

### MONOCRYSTALLINE MODULE FAMILY

**Longlife tested**

- Selection of components
- Cross-linking degree test

**Power proofed**

- Performance surplus of 0 Wp to 6.49 Wp
- 100% PID free cells

**Safety provided**

- Special packing to avoid micro cracks in the cells
- German warrantor

Luxor Solar GmbH | Kornbergstraße 29 | 70176 Stuttgart | Germany | T+49.711.88 888-999 | info@luxor-solar.com | www.luxor.solar

# ECO LINE HALF CELL FULL BLACK M108 / 395 - 415 W

Monocrystalline module family | Module type LX - XXXM/182-108+ | 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 | 20.54% | 20.79% | 21.05% | 21.30% | 21.56% |
| Efficiency at 200 W/m² | 19.98% | 20.24% | 20.48% | 20.73% | 20.98% |

### 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

### Limiting values

| | |
|---|---|
| Max. system voltage [V] | 1000 V or 1500 V |
| Max. return current [I] | 25 A |
| Operating Temperature | -40 to 85°C |
| Safety class | II |
| Max. tested pressure load [Pa]² | 5400 |
| Max. tested tensile load [Pa]² | 2400 |

### Temperature coefficient

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

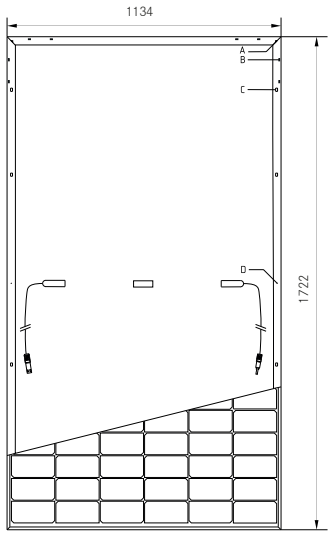
### Specifications

| | |
|---|---|
| Number of cells (matrix) | 108 (6 x 18) I 182 x 91 mm |
| Module dimensions (LxWxH)³ \| Weight | 1722 mm x 1134 mm x 30 mm \| 21.5 kg |
| Front-side glass | 3.2 mm tempered highly transparent, anti-reflection solar glass |
| Frame | stable, anodised aluminium frame |
| Junction Box | At least IP67 |
| Cable | symmetrical cable lengths > 1.1 m and 1.1 m, 4 mm² solar cable |
| Diodes | 3 Schottky Diodes |
| Plug-in connection | MC4 or equivalent (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 correspondes 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/downloads.html.
2 Horizontal mounted, for details please check mounting instruction
3 Tolerance L/W = +/- 3 mm. H +/-2mm, the dimensions given in the order confirmation will be decisive
4 Location and dimensions of holes on request

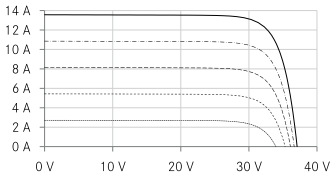
### Back - / Front - view³



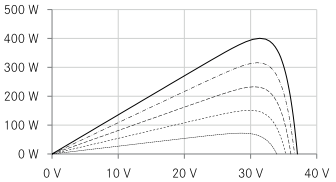

**Drilled holes⁴**
A: 4 x drainage
B: 16 x ventilation
C: 8 x mounting
D: 2 x earthing

### Electrical characteristics

UI-diagram e.g. LX-400M/182-108+




UP-diagram e.g. LX-400M/182-108+




200 W/m²
400 W/m²
600 W/m²
800 W/m²
1000 W/m²

Luxor, your specialised company

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/downloads.html