

- + REDUCED LOSSES DURING PARTIAL SHADING
- + HIGHER YIELD: MORE REFLECTION ON CELL SURFACE
- + APPLICATIONS: INDUSTRIAL, COMMERCIAL AND RESIDENTIAL POWER PLANTS
- + ECO: ESPECIALLY ECONOMIC AND RELIABLE



product guarantee¹



linear performance guarantee¹



ECO LINE HALF CELLS M120 / 315 - 335 W

MONOCRYSTALLINE 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



100% PID free cells



Special packing to avoid micro cracks in the cells



German warrantor

ECO LINE HALF CELLS M120 / 315 - 335 W

Monocrystalline module family

Module type LX - XXXM/158-120+ | XXX = Rated power P_{mpp}

Electrical data at STC

| | | | | | |
|---|--------|--------|--------|--------|--------|
| Rated power P _{mpp} [Wp] | 315.00 | 320.00 | 325.00 | 330.00 | 335.00 |
| P _{mpp} range to | 321.49 | 326.49 | 331.49 | 336.49 | 341.49 |
| Rated current I _{mpp} [A] | 9.57 | 9.64 | 9.70 | 9.76 | 9.81 |
| Rated voltage V _{mpp} [V] | 32.93 | 33.24 | 33.55 | 33.86 | 34.18 |
| Short-circuit current I _{sc} [A] | 10.02 | 10.09 | 10.16 | 10.22 | 10.27 |
| Open-circuit voltage U _{oc} [V] | 39.16 | 39.52 | 39.89 | 40.26 | 40.64 |
| Efficiency at STC up to | 19.05% | 19.35% | 19.65% | 19.94% | 20.24% |
| Efficiency at 200 W/m ² | 18.26% | 18.56% | 18.85% | 19.15% | 19.42% |

Electrical data at NOCT

| | | | | | |
|---|--------|--------|--------|--------|--------|
| Power at P _{mpp} [Wp] | 232.60 | 236.80 | 240.81 | 244.89 | 248.77 |
| Rated current I _{mpp} [A] | 7.65 | 7.71 | 7.77 | 7.83 | 7.88 |
| Rated voltage V _{mpp} [V] | 30.40 | 30.71 | 30.99 | 31.29 | 31.58 |
| Short-circuit current I _{sc} [A] | 8.09 | 8.15 | 8.20 | 8.25 | 8.30 |
| Open-circuit voltage U _{oc} [V] | 36.14 | 36.49 | 36.84 | 37.20 | 37.56 |

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 |
| 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] | -0.3% /°C 0.055% /°C -0.4% /°C |
|---|------------------------------------|

Specifications

| | |
|---|--|
| Number of cells (matrix) | 120 (6 x 20) 158 mm x 79 mm |
| Module dimensions (LxWxH) ³ Weight | 1684 mm x 1002 mm x 35 mm 19.1 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 > 1.0 m and 1.0 m, 4 mm ² solar cable |
| Diodes | 3 Schottky Diodes |
| Plug-in connection | MC4 or equivalent (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.

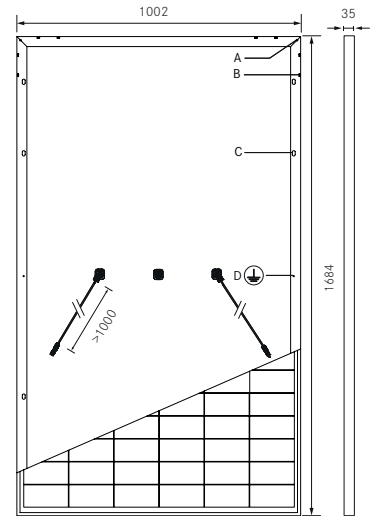
1 The specific warranty conditions are given under www.luxor-solar.com/download.htm

2 Horizontal mounted

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 -/ Side view³

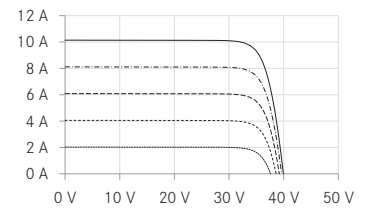


Drilled holes⁴

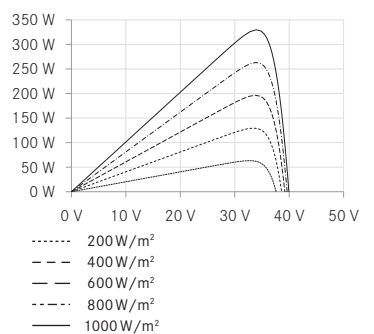
- A: 4 x drainage
- B: 16 x ventilation
- C: 8 x mounting
- D: 2 x earthing

Electrical characteristics

UI-diagram e.g. LX-330M/158-120+



UP-diagram e.g. LX-330M/158-120+



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/download.htm