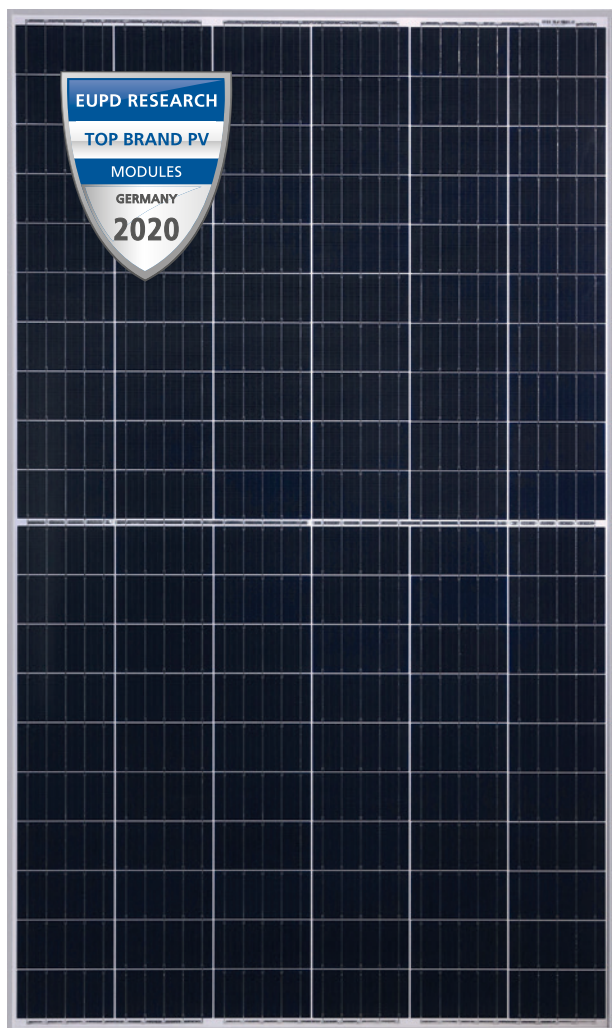


# LUXOR

solar module manufacturer since 2007



- + 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 guarantee<sup>1</sup>



linear performance guarantee<sup>1</sup>



## ECO LINE HALF CELLS

### M120 / 315 - 335 W

#### MONOCRYSTALLINE MODULE FAMILY



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



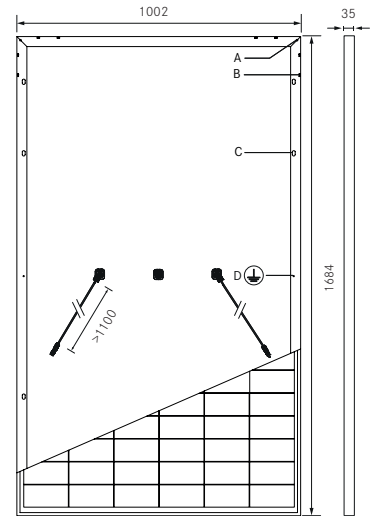
German warrantor

# ECO LINE HALF CELLS M120 / 315 - 335 W

Monocrystalline module family

Module type LX - XXXM/158-120+ | XXX = Rated power P<sub>mp</sub>

Back - / Front -/ Side view<sup>3</sup>

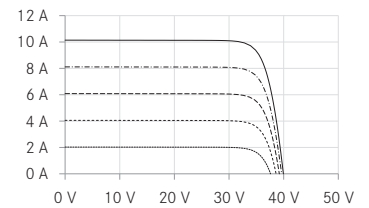


Drilled holes<sup>4</sup>

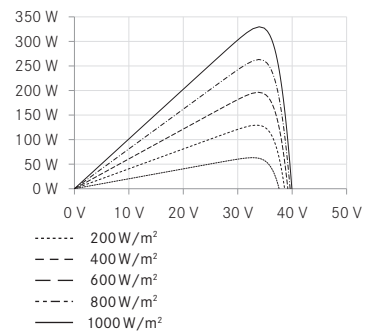
- A: 4 x drainage
- B: 16 x ventilation
- C: 8 x mounting
- D: 2 x earthing

Electrical characteristics

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



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



## Electrical data at STC

|                                           |        |        |        |        |        |
|-------------------------------------------|--------|--------|--------|--------|--------|
| Rated power P <sub>mp</sub> [Wp]          | 315.00 | 320.00 | 325.00 | 330.00 | 335.00 |
| P <sub>mp</sub> range to                  | 321.49 | 326.49 | 331.49 | 336.49 | 341.49 |
| Rated current I <sub>mp</sub> [A]         | 9.57   | 9.64   | 9.70   | 9.76   | 9.81   |
| Rated voltage V <sub>mp</sub> [V]         | 32.93  | 33.24  | 33.55  | 33.86  | 34.18  |
| Short-circuit current I <sub>sc</sub> [A] | 10.02  | 10.09  | 10.16  | 10.22  | 10.27  |
| Open-circuit voltage U <sub>oc</sub> [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 <sup>2</sup>        | 18.26% | 18.56% | 18.85% | 19.15% | 19.42% |

## Electrical data at NOCT

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

Specification as per STC (Standard test conditions): irradiance 1000 W/m<sup>2</sup> | module temperature 25°C | Air Mass = 1.5  
 NOCT (nominal operating cell temperature): irradiance 800 W/m<sup>2</sup> | 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]                     | 20 A             |
| Operating Temperature                       | -40 to 85°C      |
| Safety class                                | II               |
| Max. tested pressure load [Pa] <sup>2</sup> | 5400             |
| Max. tested tensile load [Pa] <sup>2</sup>  | 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) <sup>3</sup>   Weight | 1684 mm x 1002 mm x 35 mm   19 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 mm <sup>2</sup> 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 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](http://www.luxor-solar.com/download.htm)

2 Horizontal mounted

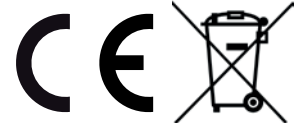
3 Tolerance L/W = +/- 3 mm. H +/- 2mm, the dimensions given in the order confirmation will be decisive

4 Location and dimensions of holes on request

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](http://www.luxor-solar.com/download.htm)