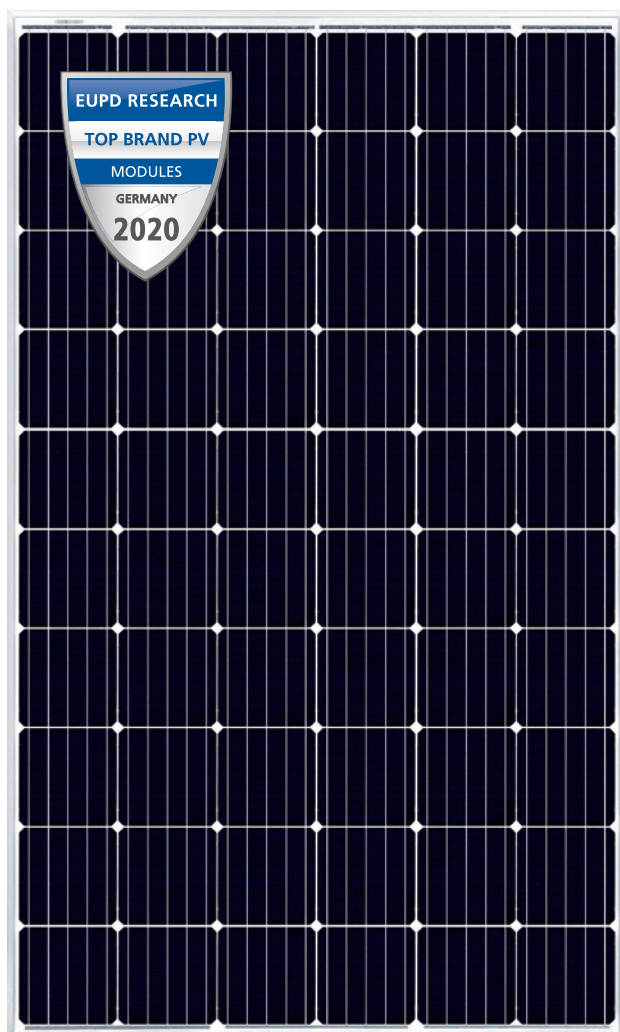


# LUXOR

solar module manufacturer since 2007



Optimized by

**solar**edge

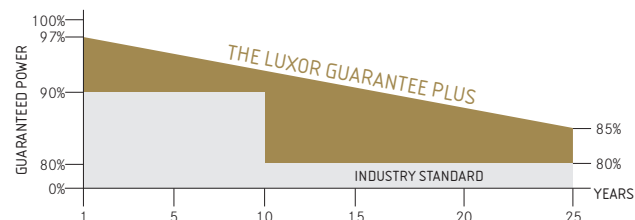
- + SMART: INTELLIGENCE IN THE JUNCTION BOX
- + SYSTEM MONITORING: OPTIMUM PERFORMANCE FOR EACH MODULE
- + GREATEST FLEXIBILITY IN SYSTEM DESIGN
- + ECO: ESPECIALLY ECONOMIC AND RELIABLE



product guarantee<sup>1</sup>



linear performance guarantee<sup>1</sup>



## ECO SMART LINE

## M60/ 300 - 320 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 SMART LINE M60/300 - 320W



Monocrystalline module family

Module type LX - XXXM/156-60+ | XXX = Rated power P<sub>mp</sub>

## Electrical data at STC

|                                           |        |        |        |        |        |
|-------------------------------------------|--------|--------|--------|--------|--------|
| Rated power P <sub>mp</sub> [Wp]          | 300.00 | 305.00 | 310.00 | 315.00 | 320.00 |
| P <sub>mp</sub> range to                  | 306.49 | 311.49 | 316.49 | 321.49 | 326.49 |
| Rated current I <sub>mp</sub> [A]         | 9.35   | 9.41   | 9.47   | 9.53   | 9.59   |
| Rated voltage V <sub>mp</sub> [V]         | 32.14  | 32.45  | 32.81  | 33.13  | 33.45  |
| Short-circuit current I <sub>sc</sub> [A] | 9.85   | 9.90   | 9.95   | 10.00  | 10.05  |
| Open-circuit voltage U <sub>oc</sub> [V]  | 38.78  | 38.97  | 39.17  | 39.36  | 39.56  |
| Efficiency at STC up to                   | 18.47% | 18.77% | 19.10% | 19.41% | 19.73% |
| Efficiency at 200 W/m <sup>2</sup>        | 17.78% | 18.06% | 18.34% | 18.63% | 18.93% |

## Electrical data at NOCT

|                                           |        |        |        |        |        |
|-------------------------------------------|--------|--------|--------|--------|--------|
| Power at P <sub>mp</sub> [Wp]             | 221.68 | 225.18 | 228.89 | 232.51 | 236.19 |
| Rated current I <sub>mp</sub> [A]         | 7.48   | 7.53   | 7.58   | 7.63   | 7.67   |
| Rated voltage V <sub>mp</sub> [V]         | 29.64  | 29.91  | 30.21  | 30.49  | 30.77  |
| Short-circuit current I <sub>sc</sub> [A] | 7.88   | 7.92   | 7.96   | 8.00   | 8.04   |
| Open-circuit voltage U <sub>oc</sub> [V]  | 35.76  | 35.92  | 36.07  | 36.23  | 36.39  |

Specification as per STC (Standard test conditions): irradiance 1000 W/m<sup>2</sup> | module temperature 25°C | AM = 1,5

NOCT (nominal operating cell temperature): irradiance 800 W/m<sup>2</sup> | wind speed 1 m/sec | temperature 20°C | @45 +/- 2°C | AM = 1,5

## Limiting values

|                                             |                  |
|---------------------------------------------|------------------|
| Max. system voltage [V]                     | 1000 V or 1500 V |
| Max. return current [I]                     | 15 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] | -0.30% /°C   0.06% /°C   -0.40% /°C |
|-----------------------------------------|-------------------------------------|

## Specifications

|                                                 |                                                                 |
|-------------------------------------------------|-----------------------------------------------------------------|
| Number of cells (matrix)                        | 60 (6 x 10), three strings in a row   156 mm x 156 mm           |
| Module dimensions (LxWxH) <sup>3</sup>   Weight | 1640 mm x 992 mm x 40 mm   20.2 kg                              |
| Front-side glass                                | 3.2 mm tempered highly transparent, anti-reflection solar glass |
| Frame                                           | stable, anodised aluminium frame                                |
| Junction Box                                    | SolarEdge                                                       |
| Cable                                           | 4 mm <sup>2</sup> solar cable, cable length 1.0 m               |
| Diodes                                          | 3 Schottky Diodes 15A/45V                                       |
| 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. What is important is the corresponding data of the individual measurement. Specifications are subject to change without notice. Measurement tolerance: rated power +/- 3%, other values +/- 10%, all information in this data sheet corresponds to DIN 50380. A potential light-induced degradation of the power after commissioning is not considered here, other information can be found in the installation guidelines.

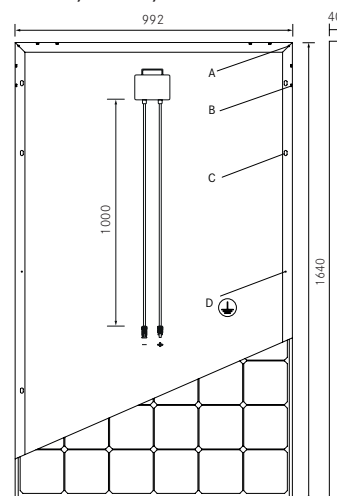
1 The specific warranty conditions are given under [www.luxor-solar.com/download.htm](http://www.luxor-solar.com/download.htm)

2 For standing installation

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

4 Location on request

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

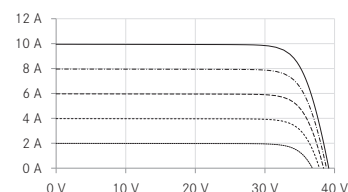


## Drilled holes<sup>4</sup>

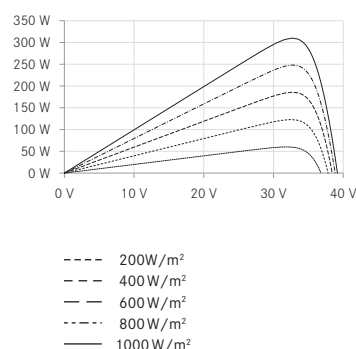
- A: 4 x drainage
- B: 16 x ventilation
- C: 8 x mounting
- D: 2 x earthing

## Electrical characteristics

UI-diagram e.g. LX-310M/156-60+



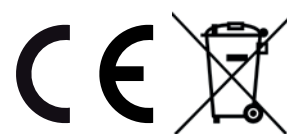
UP-diagram e.g. LX-310M/156-60+



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)