

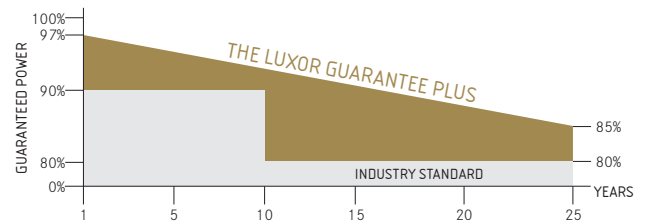
- + HIGH-PERFORMANCE SOLAR MODULE
- + APPLICATIONS: INDUSTRIAL, COMMERCIAL AND RESIDENTIAL POWER PLANTS
- + ECO: PARTICULARLY ECONOMICAL AND RELIABLE



product guarantee¹



linear performance guarantee¹



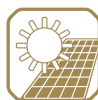
ECO LINE

M60/ 310 - 330 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 M60/310 - 330 W

Monocrystalline module family

Module type LX - XXXM/158-60+ | XXX = Rated power Pmpp

Electrical data at STC

| | | | | | |
|------------------------------------|--------|--------|--------|--------|--------|
| Rated power Pmpp [Wp] | 310.00 | 315.00 | 320.00 | 325.00 | 330.00 |
| Pmpp range to | 316.49 | 321.49 | 326.49 | 331.49 | 336.49 |
| Rated current Impp [A] | 9.64 | 9.71 | 9.77 | 9.83 | 9.89 |
| Rated voltage Vmpp [V] | 32.18 | 32.48 | 32.78 | 33.08 | 33.39 |
| Short-circuit current Isc [A] | 10.09 | 10.17 | 10.23 | 10.29 | 10.36 |
| Open-circuit voltage Uoc [V] | 38.26 | 38.62 | 38.97 | 39.34 | 39.70 |
| Efficiency at STC up to | 18.97% | 19.27% | 19.57% | 19.87% | 20.17% |
| Efficiency at 200 W/m ² | 18.08% | 18.38% | 18.67% | 18.96% | 19.25% |

Electrical data at NOCT

| | | | | | |
|-------------------------------|--------|--------|--------|--------|--------|
| Power at Pmpp [Wp] | 228.91 | 233.04 | 236.98 | 240.98 | 245.03 |
| Rated current Impp [A] | 7.71 | 7.77 | 7.83 | 7.88 | 7.94 |
| Rated voltage Vmpp [V] | 29.70 | 30.00 | 30.28 | 30.57 | 30.85 |
| Short-circuit current Isc [A] | 8.15 | 8.21 | 8.26 | 8.31 | 8.37 |
| Open-circuit voltage Uoc [V] | 35.31 | 35.65 | 36.00 | 36.34 | 36.69 |

Specification as per STC (Standard test conditions): irradiance 1000W/m² | module temperature 25°C | Air Mass = 1.5
 NOCT (nominal operating cell temperature): irradiance 800W/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 oder 1500 V |
| Max. return current [I] | 20 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] | -0.30% /°C 0.06% /°C -0.40% /°C |
|---|-------------------------------------|

Specifications

| | |
|---|---|
| Number of cells (matrix) | 60 (6 x 10), three strings in a row 158 mm x 158 mm |
| Module dimensions (LxWxH) ³ Weight | 1665 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 IP65 |
| Cable | 4 mm ² solar cable, cable length 0.9 m |
| Diodes | Schottky Diodes |
| Plug-in connection | 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.

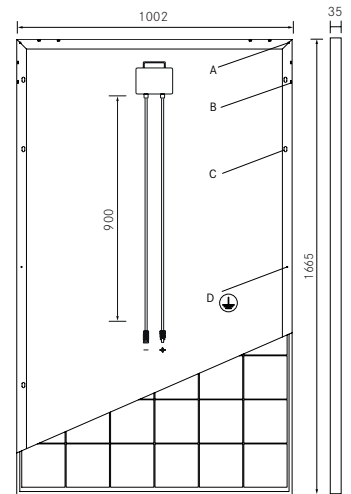
1 The specific warranty conditions are given under www.luxor-solar.com/download.htm

2 Horizontal mounted

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

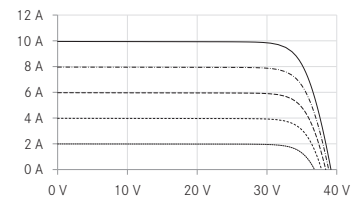


Drilled holes⁴

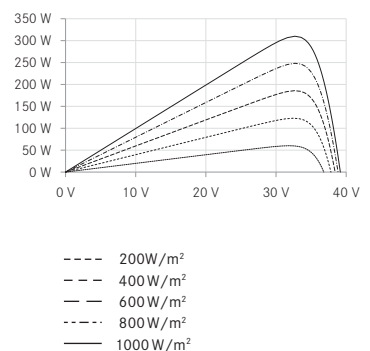
- A: 4 x drainage
- B: 16 x ventilation
- C: 8 x mounting
- D: 2 x earthing

Electrical characteristics

UI-diagram e.g. LX-310M/158-60+



UP-diagram e.g. LX-310M/158-60+



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