

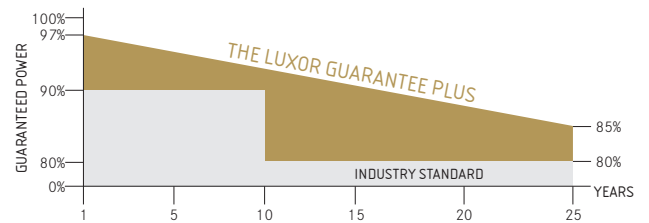
- + SMART: INTELLIGENCE IN THE JUNCTION BOX
- + SYSTEM MONITORING: OPTIMUM PERFORMANCE FOR EACH MODULE
- + GREATEST FLEXIBILITY IN SYSTEM DESIGN
- + ECO: ESPECIALLY ECONOMIC AND RELIABLE



product guarantee¹



linear performance guarantee¹



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 Pmpp

Electrical data at STC

| | | | | | |
|------------------------------------|--------|--------|--------|--------|--------|
| Rated power Pmpp [Wp] | 300.00 | 305.00 | 310.00 | 315.00 | 320.00 |
| Pmpp range to | 306.49 | 311.49 | 316.49 | 321.49 | 326.49 |
| Rated current Impp [A] | 9.35 | 9.41 | 9.47 | 9.53 | 9.59 |
| Rated voltage Vmpp [V] | 32.14 | 32.45 | 32.81 | 33.13 | 33.45 |
| Short-circuit current Isc [A] | 9.85 | 9.90 | 9.95 | 10.00 | 10.05 |
| Open-circuit voltage Uoc [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 ² | 17.78% | 18.06% | 18.34% | 18.63% | 18.93% |

Electrical data at NOCT

| | | | | | |
|-------------------------------|--------|--------|--------|--------|--------|
| Power at Pmpp [Wp] | 221.68 | 225.18 | 228.89 | 232.51 | 236.19 |
| Rated current Impp [A] | 7.48 | 7.53 | 7.58 | 7.63 | 7.67 |
| Rated voltage Vmpp [V] | 29.64 | 29.91 | 30.21 | 30.49 | 30.77 |
| Short-circuit current Isc [A] | 7.88 | 7.92 | 7.96 | 8.00 | 8.04 |
| Open-circuit voltage Uoc [V] | 35.76 | 35.92 | 36.07 | 36.23 | 36.39 |

Specification as per STC (Standard test conditions): irradiance 1000 W/m² | module temperature 25°C | AM = 1,5

NOCT (nominal operating cell temperature): irradiance 800 W/m² | 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] 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 156 mm x 156 mm |
| Module dimensions (LxWxH) ³ Weight | 1640 mm x 992 mm x 35 mm 20.2 kg |
| Front-side glass | 3.2 mm tempered highly transparent, anti-reflection solar glass |
| Frame | stable, anodised aluminium frame |
| Junction Box | Tigo |
| Cable | 4 mm ² solar cable, cable length 1.0 m |
| Diodes | 3 Schottky Diodes 15A/45V |
| 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. 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.

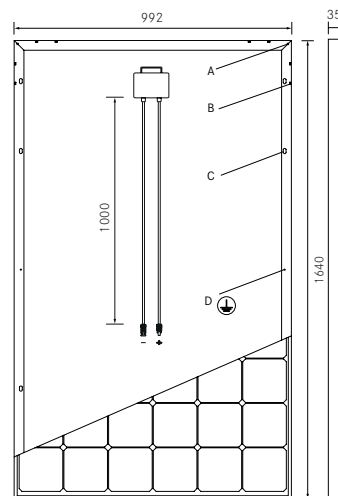
1 The specific warranty conditions are given under www.luxor-solar.com/download.htm

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 view³

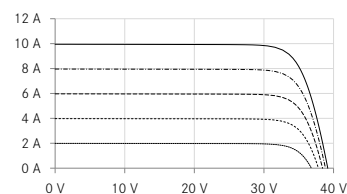


Drilled holes⁴

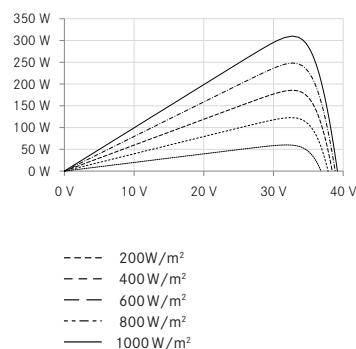
- A: 4 x drainage
- B: 16 x ventilation
- C: 8 x mounting
- D: 2 x earthing

Electrical characteristics

UI-diagram e.g. LX-310M/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