

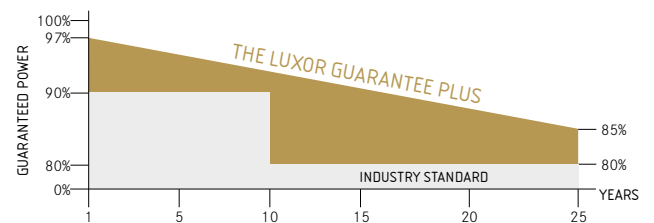
- + REDUCED LOSSES DURING PARTIAL SHADING
- + HIGHER YIELD: MORE REFLECTION ON CELL SURFACE
- + APPLICATIONS: ALL-ROUNDER FOR ALL SYSTEMS IN THE DIMENSIONS 1:2
- + ECO: ESPECIALLY ECONOMIC AND RELIABLE



product guarantee¹



linear performance guarantee¹



ECO LINE HALF CELL

M144 / 525 - 545 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 CELL M144 / 525 - 545 W

Monocrystalline module family

Module type LX - XXXM/182-144+ | XXX = Rated power Pmpp

Electrical data at STC

| | | | | | |
|------------------------------------|--------|--------|--------|--------|--------|
| Rated power Pmpp [Wp] | 525.00 | 530.00 | 535.00 | 540.00 | 545.00 |
| Pmpp range to | 531.49 | 536.49 | 541.49 | 546.49 | 551.49 |
| Rated current Impp [A] | 12.92 | 13.00 | 13.07 | 13.15 | 13.22 |
| Rated voltage Vmpp [V] | 40.66 | 40.80 | 40.95 | 41.10 | 41.24 |
| Short-circuit current Isc [A] | 13.64 | 13.73 | 13.80 | 13.89 | 13.96 |
| Open-circuit voltage Uoc [V] | 48.75 | 48.92 | 49.10 | 49.28 | 49.45 |
| Efficiency at STC up to | 20.79% | 20.99% | 21.18% | 21.38% | 21.58% |
| Efficiency at 200 W/m ² | 20.29% | 20.49% | 20.68% | 20.88% | 21.07% |

Electrical data at NOCT

| | | | | | |
|-------------------------------|--------|--------|--------|--------|--------|
| Power at Pmpp [Wp] | 389.76 | 393.47 | 397.18 | 400.90 | 404.61 |
| Rated current Impp [A] | 10.44 | 10.50 | 10.56 | 10.62 | 10.68 |
| Rated voltage Vmpp [V] | 37.34 | 37.47 | 37.62 | 37.74 | 37.89 |
| Short-circuit current Isc [A] | 11.01 | 11.08 | 11.14 | 11.21 | 11.28 |
| Open-circuit voltage Uoc [V] | 44.99 | 45.17 | 45.35 | 45.53 | 45.71 |

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] | 1500 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] | -0.285% / °C 0.049% / °C -0.360% / °C |
|---|---|

Specifications

| | |
|---|--|
| Number of cells (matrix) | 144 (6 x 24) 182 mm x 91 mm |
| Module dimensions (L x W x H) ³ Weight | 2295 mm x 1135 mm x 35 mm 28 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 > 1.4 m and 1.4 m, 4 mm ² solar cable |
| Diodes | 3 Schottky Diodes |
| Connectors | 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.

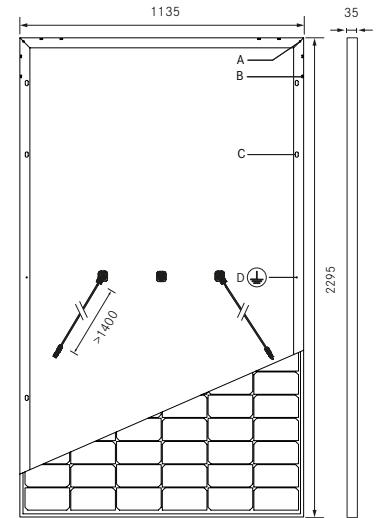
1 The specific warranty conditions are given under www.luxor-solar.com/downloads.html

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

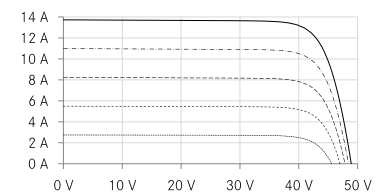


Drilled holes⁴

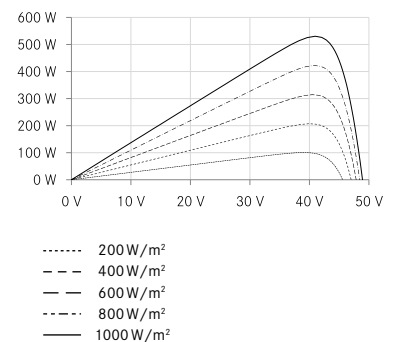
- A: 4 x drainage
- B: 16 x ventilation
- C: 8 x mounting
- D: 2 x earthing

Electrical characteristics

UI-diagram e.g. LX-530M/182-144+



UP-diagram e.g. LX-530M/182-144+

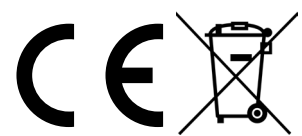


----- 200 W/m²
 - - - - 400 W/m²
 ——— 600 W/m²
 - - - - 800 W/m²
 ——— 1000 W/m²

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/downloads.html