



10-year
product guarantee



12-year guarantee for
90 % rated power



25-year guarantee for
80 % rated power



ECO LINE

60/230 – 250 W

Polycrystalline module family



Longlife tested



Power proofed



Safety provided



Selection of
components



Cross-linking
degree test



Performance surplus
of 1.5 to 6.49 Wp



Imp
sorting



Special packing to
avoid micro cracks
in the cells



German
warrantor

The 60-cell module is the large-size all-rounder among the Luxor modules. Eco in this case means especially economical: The high wattage makes the module the ideal solution for industrial scale equipments. From the open-field facilities, through the tracking system, to the roof-mounted installation. High-quality solar cell with an efficiency up to 17,7% at the best possible low light behaviour ensure the best energy output. And this at plus tolerances of 1.5 to 6.49Wp. Exemplary

in the manufacturing quality, too: An especially durable plug-in connection guarantees the best power contact under all conditions, and the hollow-section frame made of anodised aluminium and compatible with every assembly system, is torsionally stiff and corrosion-free. Manufactured according to German standards and under the strict eyes of our engineers, each Luxor photovoltaic module is marked by a special level of durability and reliability.

ECO LINE ECO LINE 60/230 – 250W

Polycrystalline module family

| Electrical data | LX-230P | LX-235P | LX-240P | LX-245P | LX-250P |
|---|----------|----------|----------|----------|----------|
| Rated power P _{mpp} [Wp] | 230.00 | 235.00 | 240.00 | 245.00 | 250.00 |
| P _{mpp} range from | 231.50 | 236.50 | 241.50 | 246.50 | 251.50 |
| P _{mpp} range to | 236.49 | 241.49 | 246.49 | 251.49 | 256.49 |
| Rated current I _{mpp} [A] | 7.73 | 7.84 | 7.95 | 8.06 | 8.16 |
| Rated voltage V _{mpp} [V] | 29.95 | 30.17 | 30.38 | 30.59 | 30.83 |
| Short-circuit current I _{sc} [A] | 8.22 | 8.39 | 8.49 | 8.58 | 8.61 |
| Open-circuit voltage U _{oc} [V] | 37.00 | 37.55 | 37.76 | 37.83 | 37.41 |
| Efficiency at STC | 14.23% | 14.54% | 14.85% | 15.16% | 15.46% |
| Efficiency at 200 W/m ² | 13.67% | 13.97% | 14.30% | 14.62% | 14.93% |
| NOCT [°C] | 47 ± 2°C | 47 ± 2°C | 47 ± 2°C | 47 ± 2°C | 47 ± 2°C |

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 | AM = 1,5

| Limiting values | LX-230P / LX-235P / LX-240P / LX-245P / LX-250P |
|-----------------------------|---|
| Max. system voltage [V] | 1000 V |
| Max. return current [I] | 15 A |
| Temperature range | -40 to 85°C |
| Snow-load zone ¹ | approval up to SLZ 3 (according to DIN 1055) |
| Max. pressure load (static) | 5400 Pa |

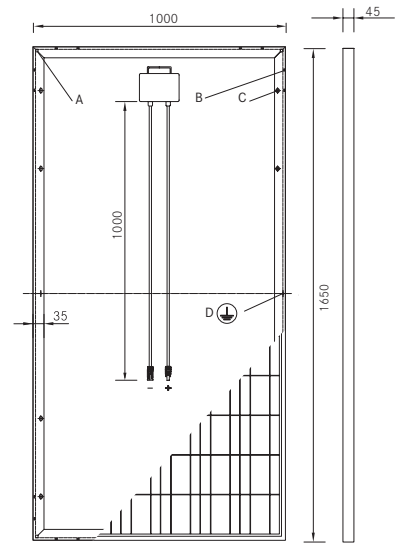
| Temperature coefficient | LX-230P / LX-235P / LX-240P / LX-245P / LX-250P |
|---|---|
| Temperature coefficient [V] [I] [P] | -0.32% /°C 0.05% /°C -0.45% /°C |

| Specifications | LX-230P / LX-235P / LX-240P / LX-245P / LX-250P |
|---|--|
| Number of cells (matrix) | 6 x 10, three strings in a row |
| Cell size | 156 mm x 156 mm |
| Module dimensions (L x W x H) ² Weight | 1,650 mm x 1000 mm x 45 mm 21.0 kg |
| Front-side glass | 3.2 mm hardened solar glass with low iron content |
| Frame | stable, anodised aluminium frame in a hollow-section design |
| Socket | plastic (PPO), IP65, ventilated and strain-relieved |
| Diodes | 3 Schottky Diodes 15A/45V |
| Cable | 4 mm ² solar cable, cable length 1.0 m |
| Plug-in connection | high-quality plug-in system, (IP65) MC4 or equivalent |
| Hail test (max. hailstorm) | ∅ 45 mm impact velocity 23 m/s |
| General technical approval | classified according to DIN EN 13501-5 as B _{ROOF} (ti) |

The specifications and average values can vary slightly. Decisive 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, other information to be found in the installation guidelines.

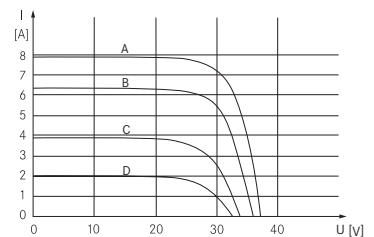
- 1 For standing installation
- 2 Tolerance L/W = +/- 3 mm, H = the dimensions given in the order confirmation will be decisive
- 3 Location on request

Back view/ Front view/ Side view²

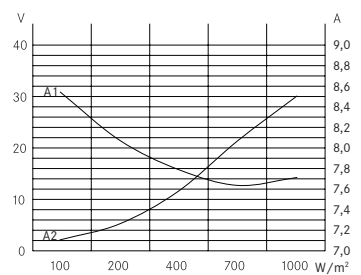


- A: 4 x drainage 10*10 mm
- B: 8 x ventilation aperture 3*7 mm
- C: 8 x mounting hole³ d = 7 mm
- D: 2 x earthing d = 2 mm

Characteristics



A: 1000 W/m² | B: 800 W/m² | C: 500 W/m² | D: 250 W/m²



A1: I_{mpp} | A2: V_{mpp}

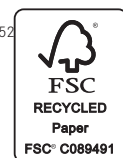
Luxor, your specialised company

Guidelines: 2006/95/EG-2006/95/EC, 89/336/EWG-89/336/EEC, 93/68/EWG-93/68/EEC



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