



product guarantee<sup>1</sup>



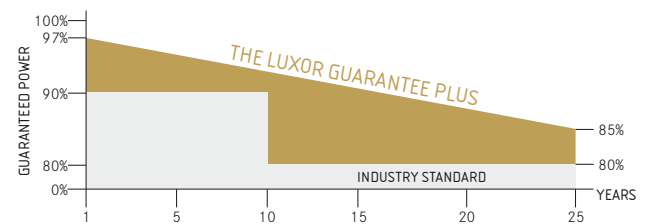
linear performance guarantee<sup>1</sup>



## ECO LINE

## M72/190 - 210 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



I<sub>mp</sub> sorting



Special packing to avoid micro cracks in the cells



German warrantor

Wherever flexibility is especially sought after, this solar module is in top form. With its dimension in a 1:2 ratio, it can always be optimally arranged in every roof covering and open-field installation. Our 72-cell module portrays a positive image with plus tolerances of 0 Wp to 6.49 Wp, through exemplary energy output. This is achieved through high-quality solar cell with an efficiency up to 20.6% at the best possible low light behaviour.

A durable plug-in connection guarantees reliable power contact for every weather. Compatible with current assembly systems through the torsionally stiff and corrosion-free hollow-section frame made of anodised aluminium. Manufactured according to German standards each Luxor photovoltaic module is marked by a special level of durability and reliability.

# ECO LINE M 72/190-210W

Monocrystalline module family

| Electrical data                           | LX-190M  | LX-195M  | LX-200M  | LX-205M  | LX-210M  |
|---|----------|----------|----------|----------|----------|
| Rated power P <sub>mpp</sub> [Wp]         | 190.00   | 195.00   | 200.00   | 205.00   | 210.00   |
| P <sub>mpp</sub> range from               | 190.00   | 195.00   | 200.00   | 205.00   | 210.00   |
| P <sub>mpp</sub> range to                 | 196.49   | 201.49   | 206.49   | 211.49   | 216.49   |
| Rated current I <sub>mpp</sub> [A]        | 5.26     | 5.31     | 5.37     | 5.43     | 5.49     |
| Rated voltage V <sub>mpp</sub> [V]        | 36.14    | 36.74    | 37.26    | 37.78    | 38.32    |
| Short-circuit current I <sub>sc</sub> [A] | 5.69     | 5.77     | 5.85     | 5.93     | 6.01     |
| Open-circuit voltage U <sub>oc</sub> [V]  | 43.66    | 43.89    | 44.12    | 44.35    | 44.58    |
| Efficiency at STC                         | 14.90%   | 15.29%   | 15.68%   | 16.08%   | 16.49%   |
| Efficiency at 200 W/m <sup>2</sup>        | 14.48%   | 14.86%   | 15.24%   | 15.63%   | 16.02%   |
| NOCT [°C]                                 | 45 ± 2°C | 45 ± 2°C | 45 ± 2°C | 45 ± 2°C | 45 ± 2°C |

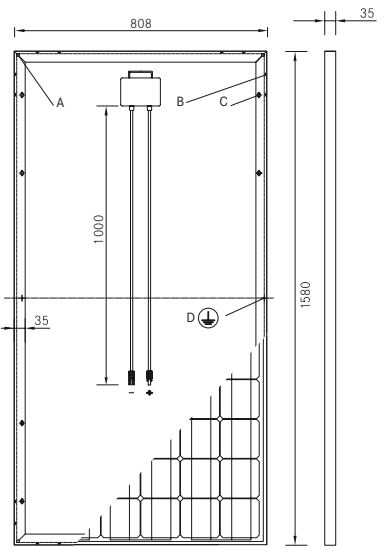
Specification as per STC (Standard test conditions): irradiance 1000 W/m<sup>2</sup> | module temperature 25°C | AM = 1,5  
 NOCT (nominal operating cell temperature): irradiance 800 W/m<sup>2</sup> | wind speed 1 m/sec | temperature 20°C | AM = 1,5

| Limiting values             | LX-190M / LX-195M / LX-200M / LX-205M / LX-210M |
|-----------------------------|---|
| Max. system voltage [V]     | 1000 V  |
| Max. return current [I]     | 12A   |
| Temperature range           | -40 to 85°C                                     |
| Snow-load zone <sup>2</sup> | approval up to SLZ 3 (according to DIN 1055)    |
| Max. pressure load (static) | 5400 Pa   |

| Temperature coefficient                 | LX-190M / LX-195M / LX-200M / LX-205M / LX-210M |
|---|---|
| Temperature coefficient [V]   [I]   [P] | -0.35% /°C   0.04% /°C   -0.45% /°C             |

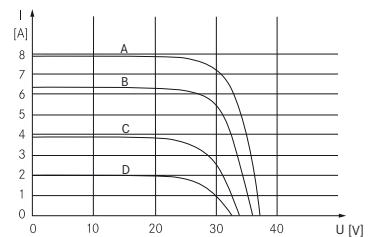
| Specifications                                      | LX-190M / LX-195M / LX-200M / LX-205M / LX-210M                  |
|---|--|
| Number of cells (matrix)                            | 6 x 12, three strings connected in series                        |
| Cell size   | 125 mm x 125 mm (diagonal: 165 mm)                               |
| Module dimensions (L x W x H) <sup>2</sup>   Weight | 1,580 mm x 808 mm x 35 mm   15.0 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 12A/45V  |
| Cable   | 4 mm <sup>2</sup> 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 <sub>ROOF</sub> (ti) |

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

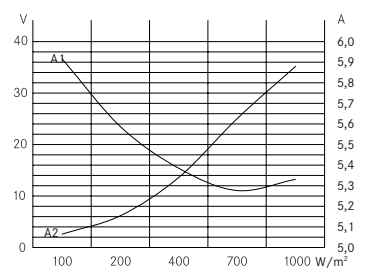


- A: 4 x drainage 10\*10 mm
- B: 16 x ventilation aperture 3\*7 mm
- C: 8 x mounting hole<sup>4</sup> d = 7 mm
- D: 2 x earthing d = 2 mm

## Characteristics



A: 1000 W/m<sup>2</sup> | B: 800 W/m<sup>2</sup> | C: 600 W/m<sup>2</sup>



A1: I<sub>mpp</sub> | A2: V<sub>mpp</sub>

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

Luxor, your specialised company

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



IEC  
IEC 61215  
IEC 61730



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)