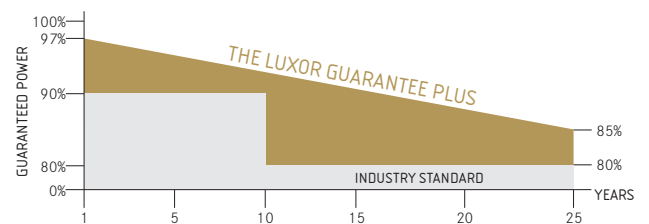


product guarantee<sup>1</sup>



linear performance guarantee<sup>1</sup>



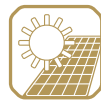
## ECO LINE HALF CELLS

### M120 / 305 - 325 W

#### Monocrystalline module family Full Black Edition



Longlife tested



Power proofed



Safety provided



Selection of components



Cross-linking degree test



Performance surplus of 0Wp to 6.49 Wp



Imp sorting



Special packing to avoid micro cracks in the cells



German warrantor

The 120-cell module with half-cell architecture increases the power output of the solar module by reducing electrical resistance and lowering power losses during partial shading. The high quality look and the homogeneous appearance of the Full Black increases the attractiveness of buildings. The module offers better visual integration without compromising on quality. High-quality solar cells with highest efficiency at the best possible low light behaviour ensure the best energy

output and this at plus tolerances of 0Wp to 6.49Wp.

Further high-end components: 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 each Luxor solar module is marked by a special level of durability and reliability.

# ECO LINE HALF CELLS M120 / 305 - 325 W

## FULL BLACK EDITION

Monocrystalline module family

Module type LX - XXXM/156-120+ | XXX = Rated power P<sub>mp</sub>

### Electrical data at STC

	305.00	310.00	315.00	320.00	325.00
Rated power P <sub>mp</sub> [Wp]	305.00	310.00	315.00	320.00	325.00
P <sub>mp</sub> range to	311.49	316.49	321.49	326.49	331.49
Rated current I <sub>mp</sub> [A]	9.29	9.35	9.42	9.48	9.55
Rated voltage V <sub>mp</sub> [V]	32.88	33.18	33.48	33.78	34.08
Short-circuit current I <sub>sc</sub> [A]	9.73	9.79	9.86	9.93	10.00
Open-circuit voltage U <sub>oc</sub> [V]	39.10	39.45	39.81	40.17	40.53
Efficiency at STC up to	18.75%	19.05%	19.35%	19.65%	19.95%
Efficiency at 200 W/m <sup>2</sup>	17.88%	18.18%	18.50%	18.80%	19.13%

### Electrical data at NOCT

	225.45	229.26	233.37	237.29	241.52
Power at P <sub>mp</sub> [Wp]	225.45	229.26	233.37	237.29	241.52
Rated current I <sub>mp</sub> [A]	7.43	7.48	7.55	7.60	7.67
Rated voltage V <sub>mp</sub> [V]	30.35	30.65	30.93	31.21	31.49
Short-circuit current I <sub>sc</sub> [A]	7.85	7.90	7.96	8.02	8.08
Open-circuit voltage U <sub>oc</sub> [V]	36.09	36.43	36.77	37.11	37.46

Specification as per STC (Standard test conditions): irradiance 1000 W/m<sup>2</sup> | module temperature 25°C | Air Mass = 1.5  
 NOCT (nominal operating cell temperature): irradiance 800 W/m<sup>2</sup> | 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 or 1500 V
Max. return current [I]	25 A
Operating Temperature	-40 to 85°C
Safety class	II
Max. tested pressure load [Pa] <sup>2</sup>	5400
Max. tested tensile load [Pa] <sup>2</sup>	2400

### Temperature coefficient

Temperature coefficient [V]   [I]   [P]	-0.3% /°C   0.055% /°C   -0.4% /°C
---	------------------------------------

### Specifications

Number of cells (matrix)	120 (6 x 20)   156 mm x 78 mm
Module dimensions (LxWxH) <sup>3</sup>   Weight	1675 mm x 992 mm x 35 mm   18.5 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 > 1.1 m and 1.1 m, 4 mm <sup>2</sup> solar cable
Diodes	3 Schottky Diodes
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. 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.

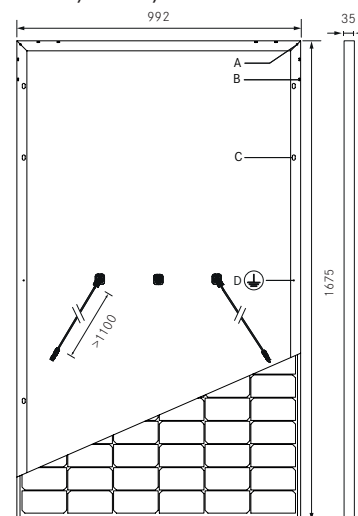
1 The specific warranty conditions are given under [www.luxor-solar.com/download.htm](http://www.luxor-solar.com/download.htm)

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 view<sup>3</sup>

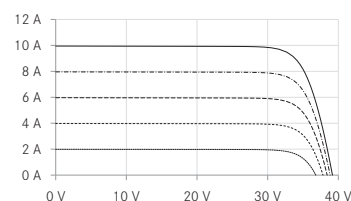


### Drilled holes<sup>4</sup>

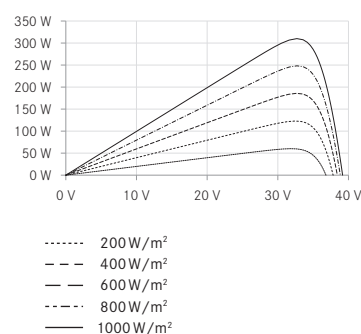
- A: 4 x drainage
- B: 16 x ventilation
- C: 8 x mounting
- D: 2 x earthing

### Electrical characteristics

UI-diagram e.g. LX-310M/156-120+



UP-diagram e.g. LX-310M/156-120+



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](http://www.luxor-solar.com/download.htm)