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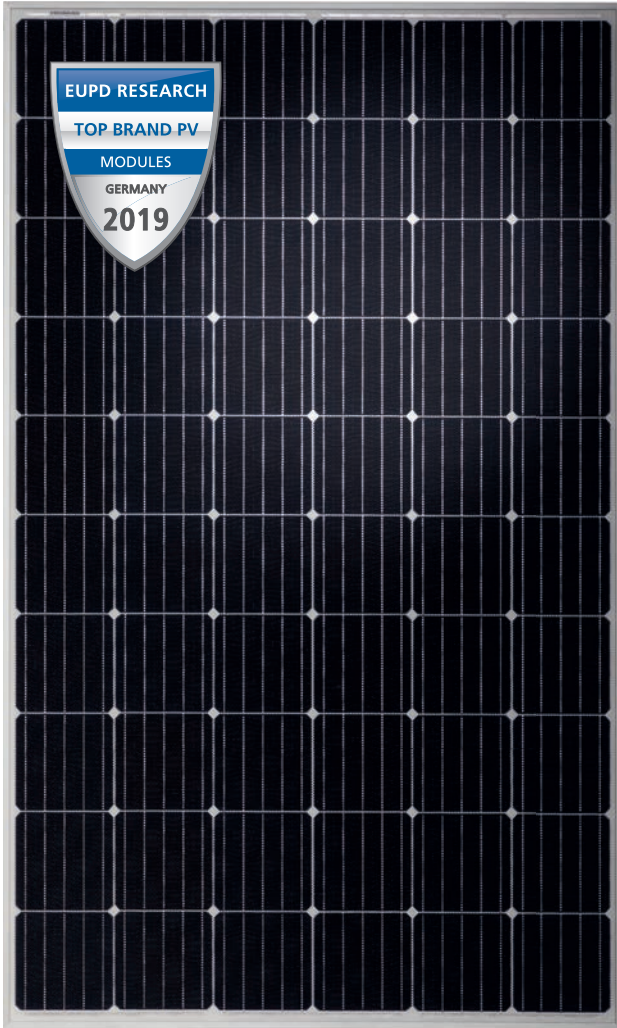
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EnergyPal

Solar Panel Guide Specification Data Sheet

**Luxor Solar GmbH
Eco Line Non-Reflect M60/300-320W
LX-305M/156-60+**

Also available on the web at
EnergyPal.com/luxor-solar-gmbh-solar-panels/lx-305m-156-60



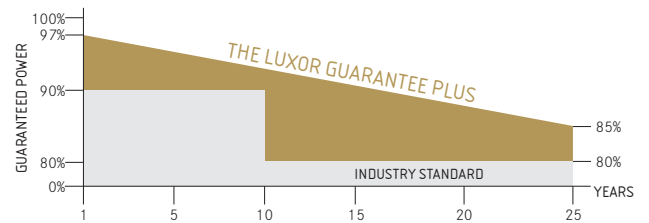
- + NON-REFLECT: DEEPLY TEXTURED GLASS FOR LEAST REFLECTION
- + APPLICATIONS: NEAR AIRPORTS, MOTORWAYS, PROTECTED AREAS
- + ECO: ESPECIALLY ECONOMIC AND RELIABLE



product guarantee¹



linear performance guarantee¹



ECO LINE NON-REFLECT

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 LINE NON-REFLECT M60/300 - 320 W

Monocrystalline module family

Module type LX - XXXM/156-60+ | XXX = Rated power P_{mpp}

Electrical data at STC

Rated power P _{mpp} [Wp]	300.00	305.00	310.00	315.00	320.00
P _{mpp} range to	306.49	311.49	316.49	321.49	326.49
Rated current I _{mpp} [A]	9.35	9.41	9.47	9.53	9.59
Rated voltage V _{mpp} [V]	32.14	32.45	32.81	33.13	33.45
Short-circuit current I _{sc} [A]	9.85	9.90	9.95	10.00	10.05
Open-circuit voltage U _{oc} [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 P _{mpp} [Wp]	221.68	225.18	228.89	232.51	236.19
Rated current I _{mpp} [A]	7.48	7.53	7.58	7.63	7.67
Rated voltage V _{mpp} [V]	29.64	29.91	30.21	30.49	30.77
Short-circuit current I _{sc} [A]	7.88	7.92	7.96	8.00	8.04
Open-circuit voltage U _{oc} [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 | 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]	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
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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 40 mm 22.5 kg
Front-side glass	4 mm deeply textured glass for least reflection
Frame	stable, anodised aluminium frame
Junction Box	At least IP65
Cable	4 mm ² solar cable, cable length 1.0 m
Diodes	3 Schottky Diodes 15A/45V
Plug-in connection	MC4 or equivalent with 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.

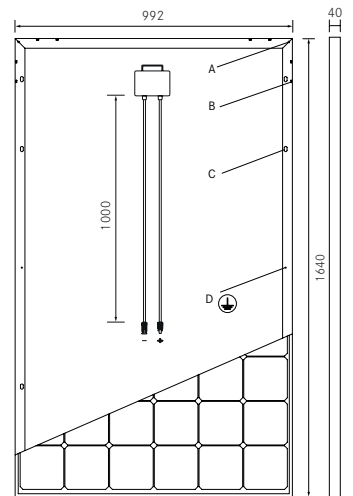
1 The specific warranty conditions are given under www.luxor-solar.com/download.htm

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

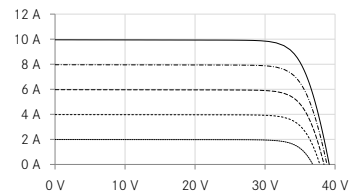


Drilled holes⁴

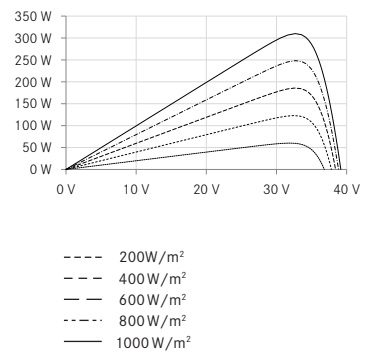
- A: 4 x drainage
- B: 16 x ventilation
- C: 8 x mounting
- D: 2 x earthing

Electrical characteristics

UI-diagram e.g. LX-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