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Call: **1-800-990-3725**

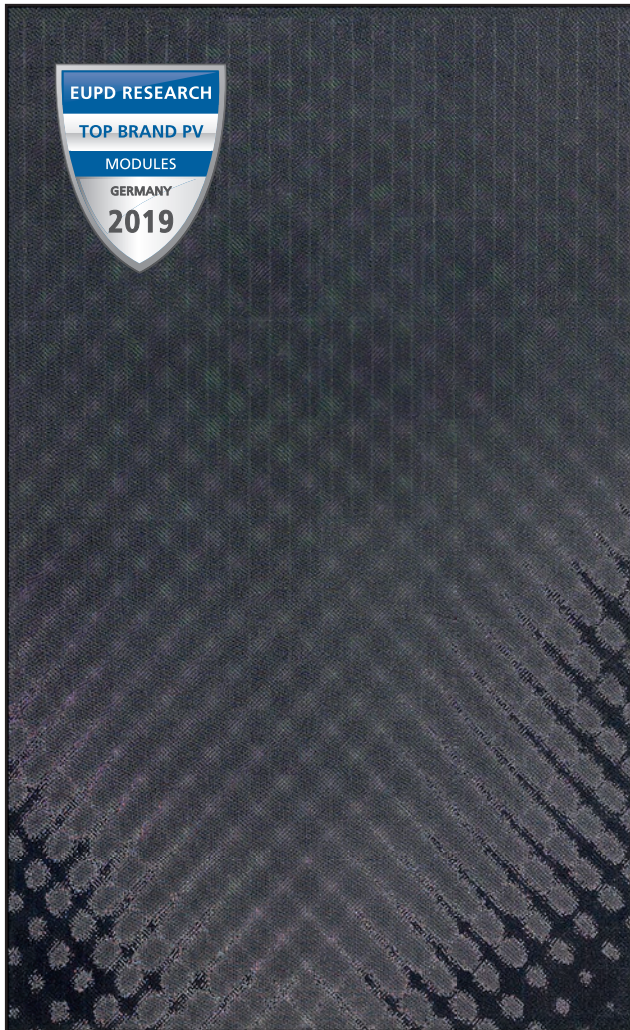
Email: **contact@energypal.com**

# **EnergyPal**

## **Solar Panel Guide Specification Data Sheet**

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

Also available on the web at  
[EnergyPal.com/luxor-solar-gmbh-solar-panels/lx-305m-156-60-gg](http://EnergyPal.com/luxor-solar-gmbh-solar-panels/lx-305m-156-60-gg)



- + NON-REFLECT: DEEPLY TEXTURED GLASS FOR LEAST REFLECTION
- + ALL BLACK: COMPLETELY BLACK MODULE SURFACE
- + DOUBLE GLASS: HIGHER MECHANICAL STABILITY AND FIRE SAFETY
- + APPLICATIONS: NEAR AIRPORTS, MOTORWAYS, PROTECTED AREAS
- + ECO: ESPECIALLY ECONOMIC AND RELIABLE



product guarantee<sup>1</sup>



linear performance guarantee<sup>1</sup>



## ECO LINE GLASS-GLASS NON-REFLECT

### M60/ 290 - 310 W

#### MONOCRYSTALLINE MODULE FAMILY, ALL BLACK, FRAMELESS



Longlife tested



Power proofed



Safety provided



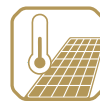
Selection of components



Back glass



Performance surplus of 0 Wp to 6.49 Wp



Higher heat dispensing



100% PID free cells



German warrantor

# ECO LINE GLASS-GLASS NON-REFLECT

## M60 / 300 - 320 W

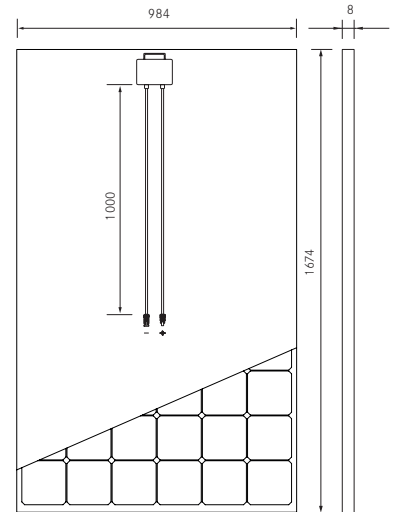
Monocrystalline module family

Module type LX - XXXM/156-60+ GG | XXX = Rated power Pmpp

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

### Electrical data at STC

Rated power P <sub>mp</sub> [Wp]	300.00	305.00	310.00	315.00	320.00
P <sub>mp</sub> range to	306.49	311.49	316.49	321.49	326.49
Rated current I <sub>mp</sub> [A]	9.35	9.41	9.47	9.53	9.59
Rated voltage V <sub>mp</sub> [V]	32.14	32.45	32.81	33.13	33.45
Short-circuit current I <sub>sc</sub> [A]	9.85	9.90	9.95	10.00	10.05
Open-circuit voltage U <sub>oc</sub> [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 <sup>2</sup>	17.78%	18.06%	18.34%	18.63%	18.93%



### Electrical data at NOCT

Power at P <sub>mp</sub> [Wp]	221.68	225.18	228.89	232.51	236.19
Rated current I <sub>mp</sub> [A]	7.48	7.53	7.58	7.63	7.67
Rated voltage V <sub>mp</sub> [V]	29.64	29.91	30.21	30.49	30.77
Short-circuit current I <sub>sc</sub> [A]	7.88	7.92	7.96	8.00	8.04
Open-circuit voltage U <sub>oc</sub> [V]	35.76	35.92	36.07	36.23	36.39

Specification as per STC (Standard test conditions): irradiance 1000W/m<sup>2</sup> | module temperature 25°C | Air Mass = 1.5  
 NOCT (nominal operating cell temperature): irradiance 800W/m<sup>2</sup> | wind speed 1m/sec | ambient temperature 20°C | cell operating temperature 45 +/- 2°C | Air Mass = 1.5

### Limiting values

Max. system voltage [V]	1000 V
Max. return current [I]	15 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]	-0.30% /°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 (L x W x H) <sup>3</sup>   Weight	1674 mm x 984 mm x 8 mm   28,5 kg
Front-side glass	4 mm deeply textured glass for least reflection
Back-side glass	2 mm hardened solar glass
Frame	Frameless
Junction Box	At least IP65
Cable	4 mm <sup>2</sup> solar cable, cable length 1.0m
Diodes	3 Schottky Diodes 15A/45V
Connectors	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.

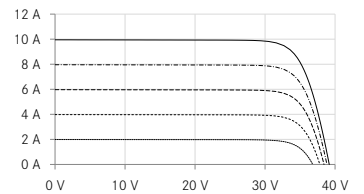
1 The specific warranty conditions are given under [www.luxor-solar.com/download.htm](http://www.luxor-solar.com/download.htm)

2 Horizontal mounted

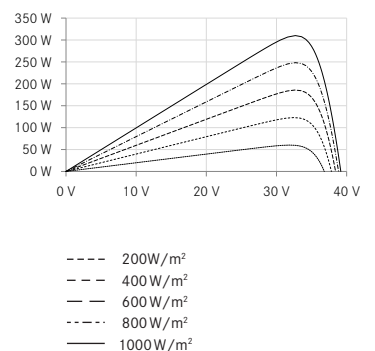
3 Tolerance L/W = +/- 3 mm, H +/- 2mm, the dimensions given in the order confirmation will be decisive

### Electrical characteristics

UI-diagram e.g. LX-310M/156-60+ GG



UP-diagram e.g. LX-310M/156-60+ GG



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)