Solar Module
Manufacturer
Since 2004

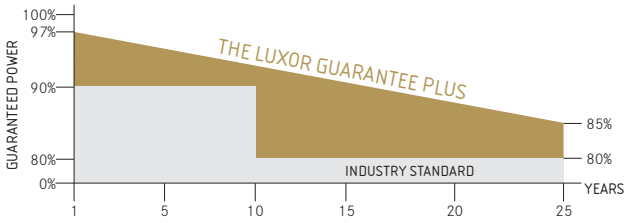
LUXOR
the sunshine people

15 YEARS
product guarantee[1]

25 YEARS
linear performance guarantee[1]

ECO LINE
M60/ 300 - 320 W

Monocrystalline module family



Longlife tested

- Selection of components
- Cross-linking degree test

Power proofed

- Performance surplus of 0 Wp to 6.49 Wp
- Impp sorting

Safety provided

- Special packing to avoid micro cracks in the cells
- German warrantor

The 60-cell module is the large-size all-rounder among the Luxor solar 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 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.

Luxor Solar GmbH | Theodor-Heuss-Straße 30 | 70174 Stuttgart | Germany | T+49.711.88888-999 | info@luxor-solar.com | www.luxor-solar.com

ECO LINE M60/300 - 320W

Monocrystalline module family | Module type LX - XXXM/156-60+ | XXX = Rated power Pmpp

Electrical data at STC

Rated power Pmpp [Wp]	300.00	305.00	310.00	315.00	320.00
Pmpp range to	306.49	311.49	316.49	321.49	326.49
Rated current Impp [A]	9.35	9.41	9.47	9.53	9.59
Rated voltage Vmpp [V]	32.14	32.45	32.81	33.13	33.45
Short-circuit current Isc [A]	9.85	9.90	9.95	10.00	10.05
Open-circuit voltage Uoc [V]	38.78	38.97	39.17	39.36	39.56
Efficiency at STC	18.47%	18.77%	19.10%	19.41%	19.73%
Efficiency at 200 W/m²	17.78%	18.06%	18.34%	18.63%	18.93%

Electrical data at NOCT

Pmpp [Wp]	221.68	225.18	228.89	232.51	236.19
Rated current Impp [A]	7.48	7.53	7.58	7.63	7.67
Rated voltage Vmpp [V]	29.64	29.91	30.21	30.49	30.77
Short-circuit current Isc [A]	7.88	7.92	7.96	8.00	8.04
Open-circuit voltage Uoc [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 | AM = 1,5
NOCT (nominal operating cell temperature): irradiance 800 W/m2 | wind speed 1 m/sec | temperature 20°C | @45 +/- 2°C | AM = 1,5

Limiting values

Max. system voltage [V]	1000 V
Max. return current [I]	15 A
Operating Temperature	-40 to 85°C
Snow-load zone[2]	approval up to SLZ 3 (according to DIN 1055)
Max. pressure load (static) [Pa]	5400
Max. dynamic load [Pa]	2400

Temperature coefficient

Temperature coefficient [V] | [I] | [P]	-0.30% /°C | 0.06% /°C | -0.40% /°C

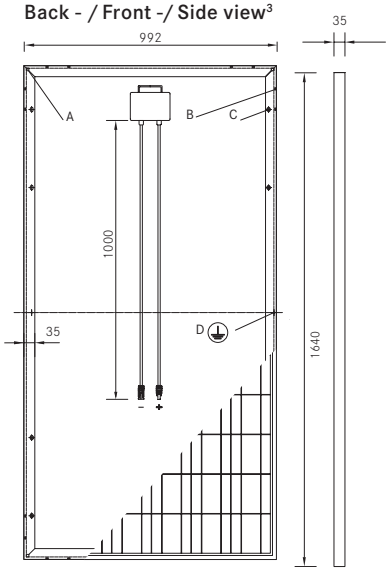
Specifications

Number of cells (matrix)	6 x 10, three strings in a row I 156 mm x 156 mm
Module dimensions (L x W x H)[3] | Weight	1640 mm x 992 mm x 35 mm | 18.5 kg
Front-side glass	3.2 mm hardened solar glass with low iron content
Frame	stable, anodised aluminium frame in a hollow-section design
Junction Box	At least IP65
Cable	4 mm² solar cable, cable length 1.0 m
Diodes	3 Schottky Diodes 15A/45V
Connectors	MC4 or equivalent (IP67)
Hail test (max. hailstorm)	ø 45 mm | impact velocity 23 m/s ≙ 83 km/h

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
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

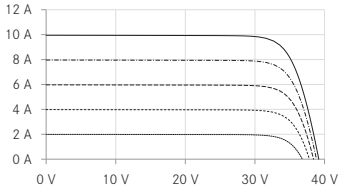
Back - / Front -/ Side view[3]



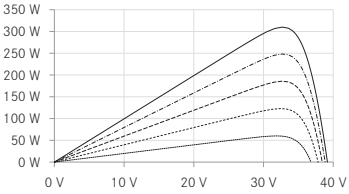
A: 4 x drainage 10*10 mm
B: 8 x ventilation aperture 3*7 mm
C: 8 x mounting hole[4] d = 7 mm
D: 2 x earthing d = 2 mm

Electrical characteristics

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



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



100 W/m²
200W/m²
400W/m²
600W/m²
800W/m²
1000 W/m²

Luxor, your specialised company

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

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