



product guarantee¹



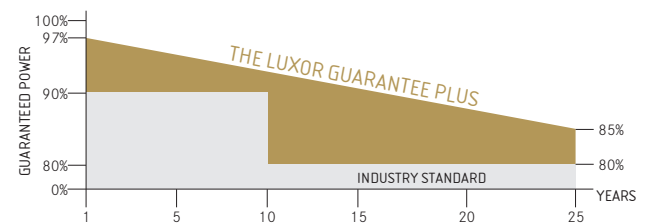
linear performance guarantee¹



ECO LINE

M60/285 – 295 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



Imp sorting



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 an efficiency up to 21.0% at the best possible low light behaviour ensure the best energy output. And this at plus tolerances of 0 Wp to 6.49 Wp.

Exemplary in the manufacturing quality, too: 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 photovoltaic module is marked by a special level of durability and reliability.

ECO LINE M60/285 – 295 W

Monocrystalline module family

Electrical data	LX-285M	LX-290M	LX-295M
Rated power P _{mpp} [Wp]	285.00	290.00	295.00
P _{mpp} range from	285.00	290.00	295.00
P _{mpp} range to	291.49	296.49	301.49
Rated current I _{mpp} [A]	8.92	9.04	9.16
Rated voltage V _{mpp} [V]	32.05	32.12	32.24
Short-circuit current I _{sc} [A]	9.30	9.39	9.49
Open-circuit voltage U _{oc} [V]	38.42	38.60	38.78
Efficiency at STC	17.42%	17.69%	17.99%
Efficiency at 200 W/m ²	17.10%	17.36%	17.66%
NOCT [°C]	45 ± 2°C	45 ± 2°C	45 ± 2°C

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 | AM = 1.5

Limiting values	LX-285M / LX-290M / LX-295M
Max. system voltage [V]	1000 V
Max. return current [I]	15 A
Temperature range	-40 to 85°C
Snow-load zone ²	approval up to SLZ 3 (according to DIN 1055)
Max. pressure load (static)	5400 Pa

Temperature coefficient	LX-285M / LX-290M / LX-295M
Temperature coefficient [V] [I] [P]	-0.34 % /°C 0.05 % /°C -0.45 % /°C

Specifications	LX-285M / LX-290M / LX-295M
Number of cells (matrix)	6 x 10, three strings in a row
Cell size	156 mm x 156 mm
Module dimensions (L x W x H) ² Weight	1658 mm x 990 mm x 50 mm 19.3kg
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), IP67, strain-relieved
Cable	4 mm ² solar cable, cable length 1.0 m
Diodes	3 Schottky Diodes 15A/45V
Plug-in connection	high-quality plug-in system, (IP68) MC4 or equivalent
Hail test (max. hailstorm)	∅ 45 mm impact velocity 23 m/s

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

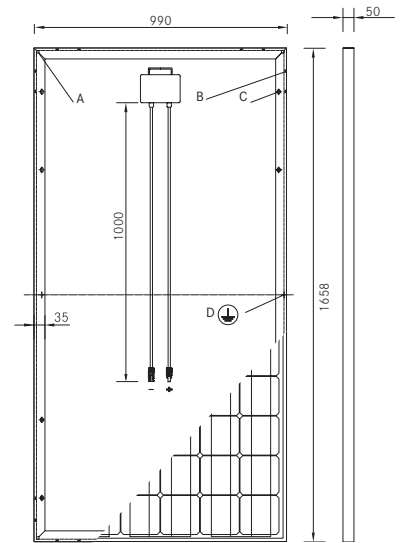
2 For standing installation

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

4 Location on request

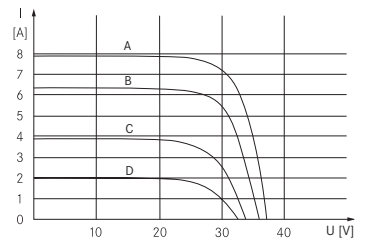
Luxor, your specialised company

Back view/ Front view/ Side view³

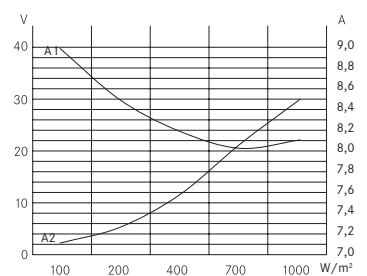


- A: 4 x drainage 10*10 mm
- B: 8 x ventilation aperture 3*7 mm
- C: 8 x mounting hole⁴ d = 7 mm
- D: 2 x earthing d = 2 mm

Characteristics



A: 1000 W/m² | B: 800 W/m² | C: 600 W/m² | D: 200 W/m²



A1: I_{mpp} | A2: V_{mpp}

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