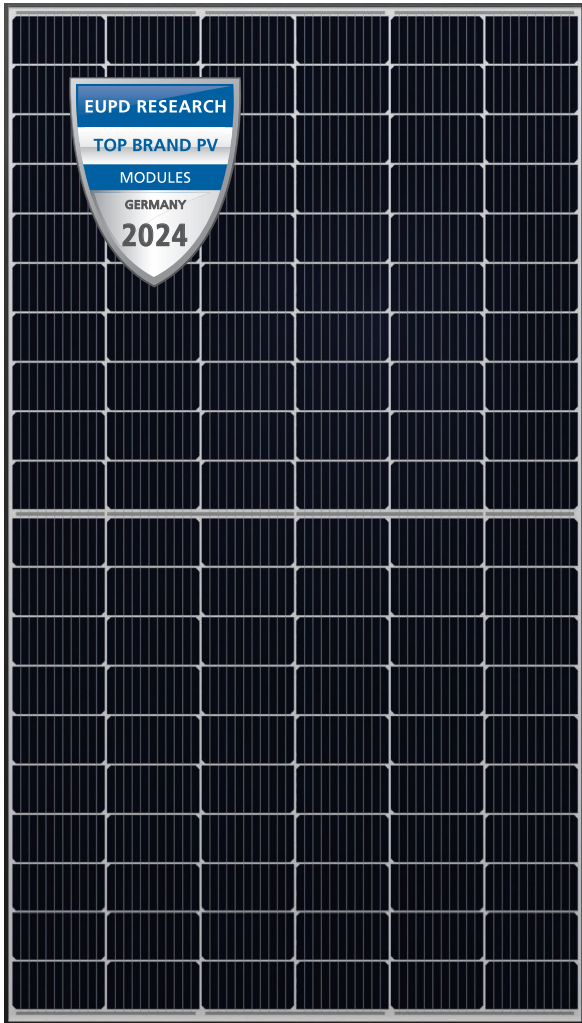




LUXOR

solar module manufacturer



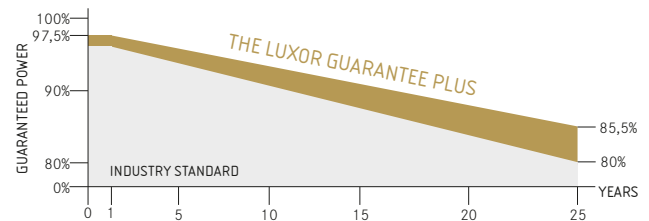
- + REDUCED LOSSES DURING PARTIAL SHADING
- + HIGHER YIELD MORE REFLECTION ON CELL SURFACE
- + APPLICATIONS: INDUSTRIAL, COMMERCIAL & RESIDENTIAL POWER PLANTS
- + ECO: ESPECIALLY ECONOMIC AND RELIABLE



product guarantee¹



linear performance guarantee¹



ECO LINE HALF CELL

M120 / 450 - 470 W

MONOCRYSTALLINE MODULE FAMILY, BLACK FRAME



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 HALF CELL

M120 / 450 - 470 W, BLACK FRAME

Monocrystalline module family

Module type LX - XXXM/182-120+ | XXX = Rated power P_{mp}

Electrical data at STC

Rated power P _{mp} [Wp]	450.00	455.00	460.00	465.00	470.00
P _{mp} range to	456.49	461.49	466.49	471.49	476.49
Rated current I _{mp} [A]	12.99	13.09	13.19	13.28	13.38
Rated voltage V _{mp} [V]	34.65	34.78	34.90	35.03	35.16
Short-circuit current I _{sc} [A]	13.79	13.90	14.00	14.10	14.20
Open-circuit voltage U _{oc} [V]	41.55	41.70	41.85	42.00	42.15
Efficiency at STC up to	21.15%	21.39%	21.62%	21.85%	22.08%
Efficiency at 200 W/m ²	20.60%	20.83%	21.07%	21.29%	21.52%

Electrical data at NOCT

Power at P _{mp} [Wp]	334.08	337.79	341.50	345.22	348.93
Rated current I _{mp} [A]	10.49	10.57	10.66	10.73	10.81
Rated voltage V _{mp} [V]	31.84	31.94	32.05	32.18	32.28
Short-circuit current I _{sc} [A]	11.14	11.23	11.31	11.39	11.47
Open-circuit voltage U _{oc} [V]	38.35	38.50	38.65	38.81	38.96

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]	1500 V
Max. return current [I]	25 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]	- 0.285 %/°C 0.049 %/°C -0.360 %/°C
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Specifications

Number of cells (matrix)	120 (6 x 20) 182 x 91 mm
Module dimensions (LxWxH) ³ Weight	1903 mm x 1134 mm x 35 mm 23.5 kg
Front-side glass	3.2 mm tempered highly transparent, anti-reflection solar glass
Frame	Stable, anodised aluminium frame, black
Junction Box	At least IP67
Cable	symmetrical cable lengths > 1.4 m and 1.4 m, 4 mm ² 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.

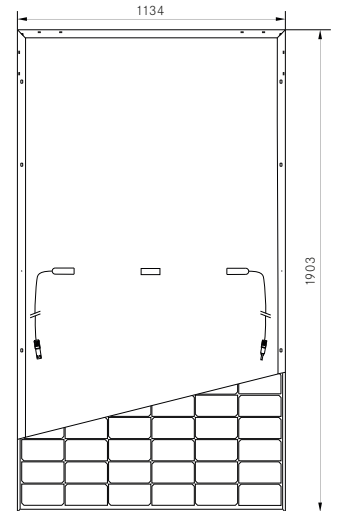
1 The specific warranty conditions are given under www.luxor.solar/downloads.html.

2 Horizontal mounted, details in installations manual.

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

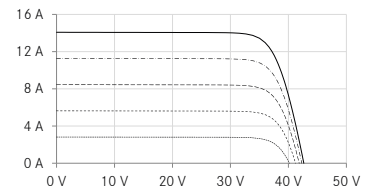
4 Location and dimensions of holes on request

Back - / Frontview^{3,4}

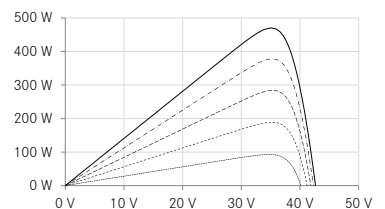


Electrical characteristics

UI-diagram e.g. LX-470M/182-120+



UP-diagram e.g. LX-470M/182-120+

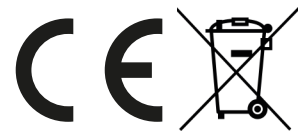


----- 200 W/m²
 - - - - 400 W/m²
 - - - - 600 W/m²
 - - - - 800 W/m²
 ——— 1000 W/m²

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/downloads.html