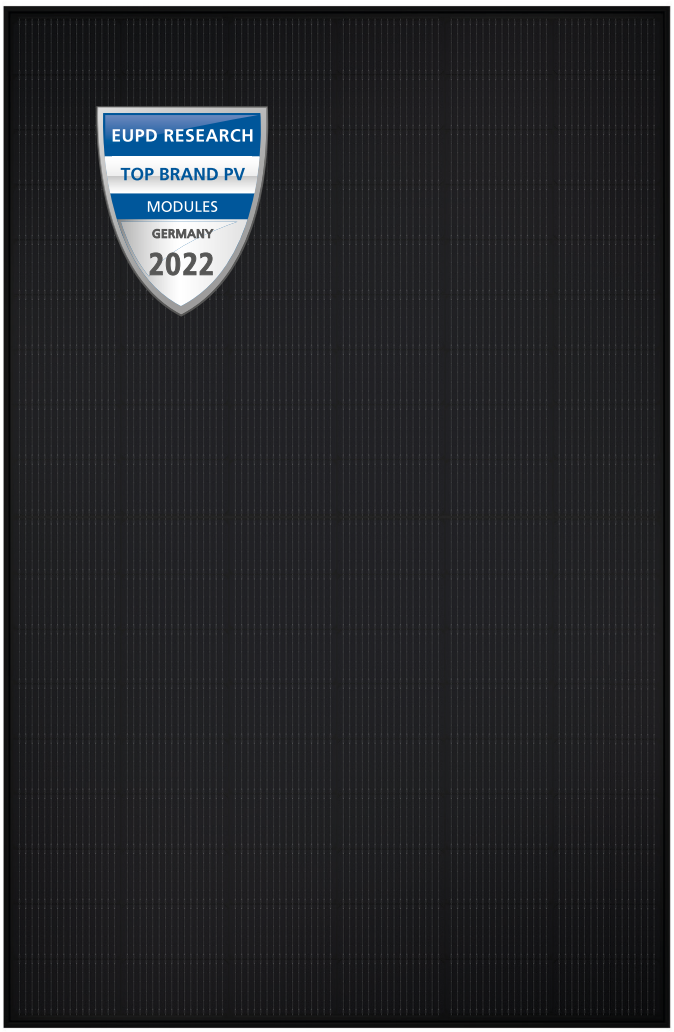
LUXOR

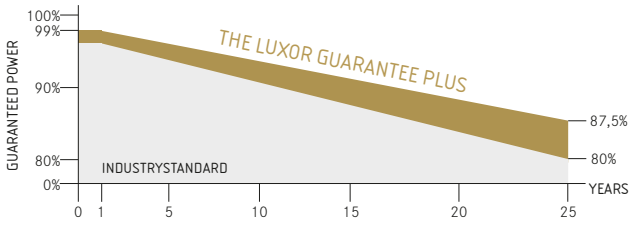
solar module manufacturer since 2007



- POWERFUL N-TYPE TOPCON CELLS
- REDUCTION OF BALANCE-OF-SYSTEM-COSTS THROUGH HIGHER PERFOR-MANCE PER MODULE
- ECO: ESPECIALLY ECONOMIC AND RELIABLE
- APPLICATIONS: COMMERCIAL AND RESIDENTIAL POWER PLANTS
- HIGH CLASS APPEARANCE: EASY INTEGRATION IN BUILDINGS

15 YEARS
product guarantee[1]

25 YEARS
linear performance guarantee[1]



ECO LINE N-TYPE
M108 / 410 - 430W

MONOCRYSTALLINE N-TYPE MODULE FAMILY, FULLBLACK

Longlife tested

- Selection of components
- Cross-linking degree test

Power proofed

- Performance surplus of 0 Wp to 6.49 Wp
- PID free LID Free

Safety provided

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

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ECO LINE N-TYPE

M108 / 410 - 430 W, FULLBLACK

Module type	LX - XXX M/182-108+	| XXX = Rated power Pmpp

Electrical data at STC

Rated power Pmpp [Wp]	410.00	415.00	420.00	425.00	430.00
Pmpp range to	416.49	421.49	426.49	431.49	436.49
Rated current Impp [A]	13.20	13.28	13.36	13.44	13.52
Rated voltage Vmpp [V]	31.08	31.27	31.46	31.65	31.84
Short-circuit current Isc [A]	13.92	14.01	14.09	14.18	14.26
Open-circuit voltage Uoc [V]	37.63	37.86	38.09	38.32	38.55
Efficiency at STC up to	21.33%	21.58%	21.84%	22.10%	22.35%
Efficiency at 200 W/m²	20.78%	21.04%	21.29%	21.55%	21.81%

Electrical data at NOCT

Power at Pmpp [Wp]	308.32	312.08	315.84	319.60	323.36
Rated current Impp [A]	10.66	10.72	10.78	10.85	10.91
Rated voltage Vmpp [V]	28.92	29.11	29.30	29.46	29.64
Short-circuit current Isc [A]	11.24	11.31	11.37	11.45	11.51
Open-circuit voltage Uoc [V]	34.73	34.96	35.18	35.40	35.63

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 | max. return current	1000 V or 1500 V | 25 A
Safety class | Fire safety class	II | C (according to IEC 61730)
Operating Temperature	-40 up to 85°C
Max. tested pressure load-/tensile[2]	5400 Pa / 2400 Pa

Temperature coefficient

Temperature coefficient [U] | [I] | [P]	-0.25 % /°C | 0.045 % /°C | -0.3 % /°C

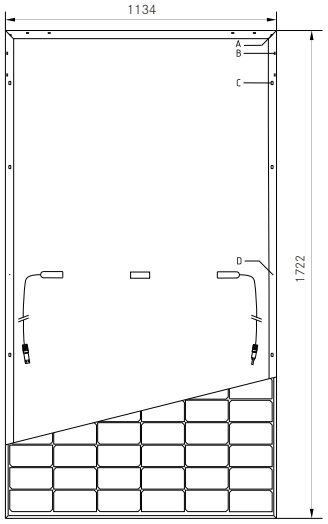
Specifications

Cells (matrix) | Dimenstions | Type	108 (6 x 18) I 182 mm | N-Type TOPCon
Module dimensions (L x W x H)[3] | Weight	1722 mm x 1134 mm x 30 mm | 21.5 kg
Front side	3.2 mm tempered, highly transparent, anti-reflection solar glass
Back side	Backsheet (black or white)
Frame	Stable, anodised aluminium frame
Embedding material	POE / EVA
Junction Box | Diodes	At least IP67 | 3 Schottky Diodes
Cable	Symmetrical cable lengths > 1.1 m, 4 mm² solar cable
Connectors	MC4 or equivalent with IP67
Hail test (max. hailstorm)	Ø 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 correspondes 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.html
2 Horizontal mounted, for details please check mounting instruction
3 Tolerance L/W = +/- 3 mm. H +/-2mm, the dimensions given in the order confirmation will be decisive
4 Location and dimensios of holes on request

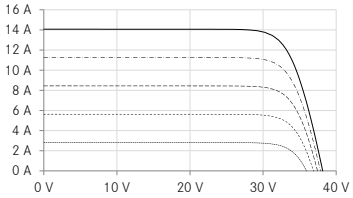
Back - / Frontview[3]



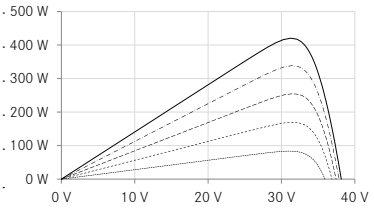
Drilled holes[4]
A: 4 x drainage
B: 16 x ventilation
C: 8 x mounting
D: 2 x earthing

Electrical characteristics

UI - diagram e.g. 420 Wp



UP - diagram e.g. 420 Wp



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

Luxor, your specialised company

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/downloads.html