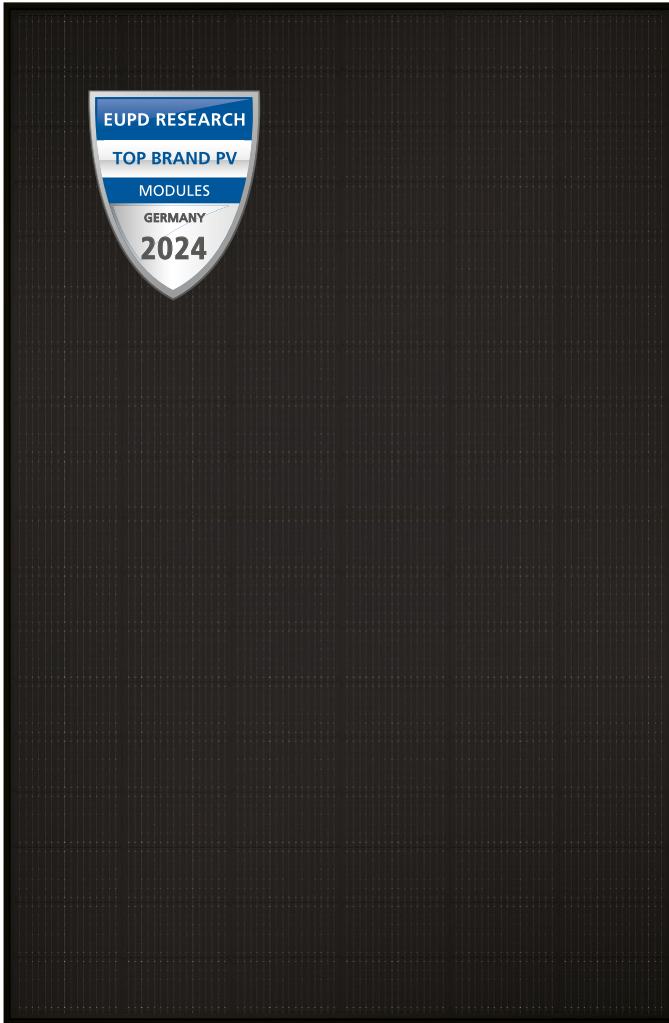




LUXOR

solar module manufacturer



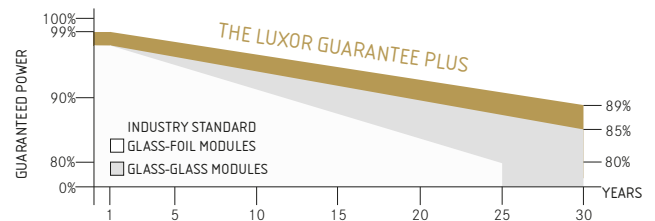
- + POWERFUL N-TYPE TOPCON CELLS
- + GLASS-GLASS: HIGHER MECHANICAL STABILITY AND FIRE SAFETY
- + BIFACIAL: DOUBLE-SIDED POWER GENERATION FOR MORE YIELD
- + REDUCTION OF BALANCE-OF-SYSTEM-COSTS THROUGH HIGHER PERFORMANCE PER MODULE
- + APPLICATION: WHEREVER LONGEVITY AND ROBUSTNESS ARE REQUIRED



product guarantee¹



linear performance guarantee¹



ECO LINE N-TYPE TOPCON GLASS-GLASS BIF

M108 / 420 - 440W

MONOCRYSTALLINE MODULE FAMILY, FULL BLACK



Longlife tested



Power proofed



Safety provided



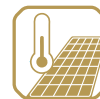
Selection of components



Back glass



Performance surplus of 0 Wp to 6.49 Wp



Higher heat dispensing



PID free LID Free



German warrantor

ECO LINE N-TYPE TOPCON GLASS-GLASS BIFACIAL

M108 / 420 - 440 W, FULL BLACK

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

Electrical data at STC

Rated power Pmpp [Wp]	420.00	425.00	430.00	435.00	440.00
Pmpp range to	426.49	431.49	436.49	441.49	446.49
Rated current Impp [A]	13.36	13.44	13.52	13.59	13.67
Rated voltage Vmpp [V]	31.46	31.65	31.84	32.03	32.22
Short-circuit current Isc [A]	14.09	14.18	14.26	14.34	14.42
Open-circuit voltage Uoc [V]	38.09	38.32	38.55	38.78	39.01
Efficiency at STC up to	21.84%	22.10%	22.35%	22.61%	22.86%
Efficiency at 200 W/m ²	21.30%	21.55%	21.81%	22.05%	22.32%

Electrical data at NOCT

Power at Pmpp [Wp]	316.51	320.28	324.05	327.82	331.58
Rated current Impp [A]	10.78	10.85	10.91	10.97	11.03
Rated voltage Vmpp [V]	29.36	29.52	29.70	29.88	30.06
Short-circuit current Isc [A]	11.37	11.45	11.51	11.58	11.64
Open-circuit voltage Uoc [V]	35.16	35.38	35.60	35.83	36.05

Specification as per STC (Standard test conditions): irradiance 1000W/m² | module temperature 25°C | Air Mass = 1.5
 NOCT (nominal operating cell temperature): irradiance 800W/m² | wind speed 1 m/sec | ambient temperature 20°C | cell operating temperature 45 +/-2°C | Air Mass = 1.5

Bifacial Gain* (e.g. 430 Wp)

Backside power gain [Wp]	5%	10%	15%	20%	25%
Rated power Pmpp [Wp]	451.50	473.00	494.50	516.00	537.50
Rated current Impp [A]	14.18	14.86	15.53	16.20	16.88
Rated voltage Vmpp [V]	31.84	31.84	31.84	31.85	31.85
Short-circuit current Isc [A]	14.97	15.69	16.40	17.11	17.83
Open-circuit voltage Uoc [V]	38.55	38.55	38.55	38.56	38.56

*depending on the reflection of the underlying surface

Limiting values

Max. system voltage max. return current	1000 V or 1500 V 30 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 -0.29 % /°C
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Specifications

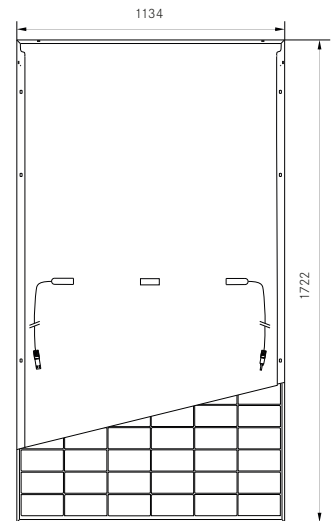
Cells (matrix) Type	108 (6 x 18) M10, Half Cell N-Type TOPCon
Module dimensions (L x W x H) ³ Weight	1722 mm x 1134 mm x 30 mm 24 kg
Bifaciality factor ⁵	Up to 80%
Front-side glass	2.0 mm highly transparent, anti-reflection solar glass
Back-side	2.0 mm tempered highly transparent glass, black mesh
Frame	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 mm ² solar cable
Connectors	MC4 or equivalent with IP67
Hail test (max. hailstorm)	Ø 45mm impact velocity 23 m/s ± 83 km/h (IEC61215)

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.

- The specific warranty conditions are given under www.luxor.solar/downloads.html
- Horizontal mounted, for details please check mounting instruction
- Tolerance L/W = +/- 3 mm, H +/- 2 mm, the dimensions given in the order confirmation will be decisive
- Frame drawing, location and dimensions of holes on request
- N-Type TOPCon Bifaciality factor 77 +/- 3 %

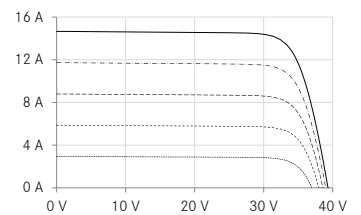
Luxor, your specialised company

Back - / Frontview^{3,4}

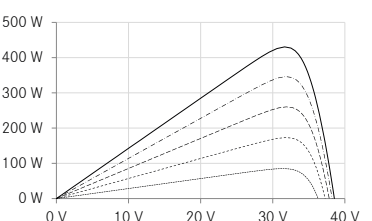


Electrical characteristics

UI-diagram e.g. 430 Wp



UP-diagram e.g. 430 Wp



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



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