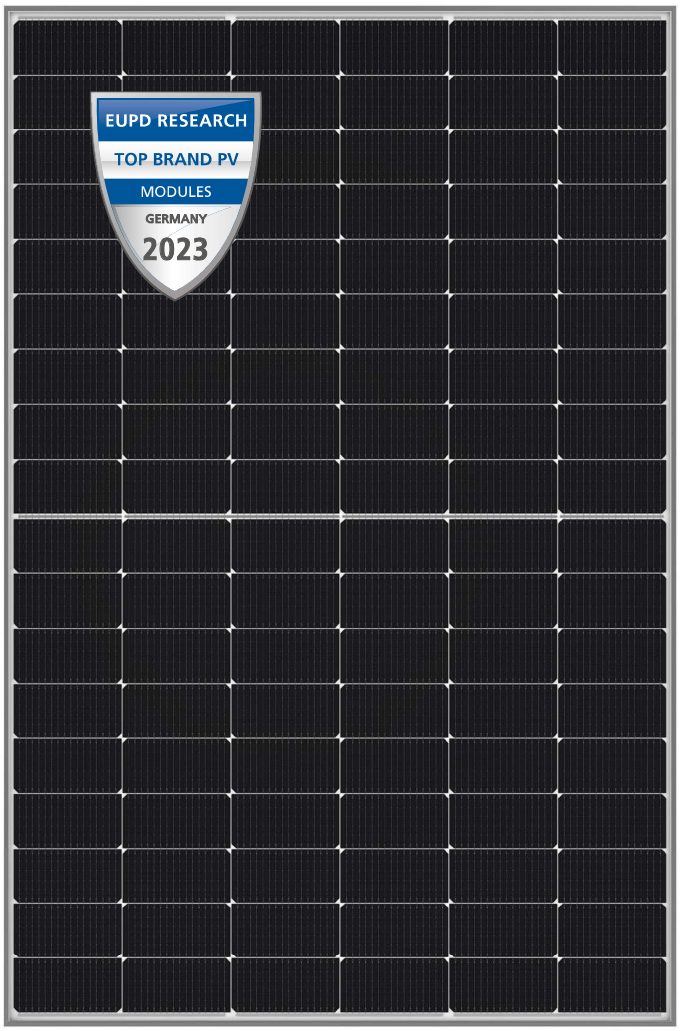
LUXOR

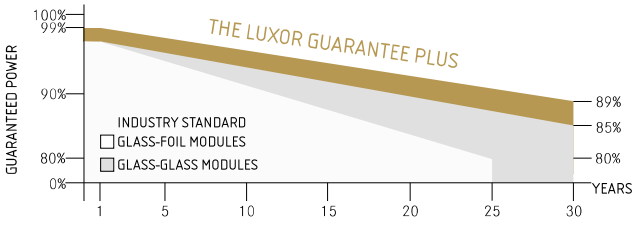
solar module manufacturer since 2007



+ POWERFUL N-TYPE TOPCON CELLS
+ DOUBLE GLASS: HIGHER MECHANICAL STABILITY AND FIRE SAFETY
+ REDUCED LOSSES DURING PARTIAL SHADING
+ APPLICATION: WHEREVER LONGEVITY AND ROBUSTNESS ARE REQUIRED
+ ECO: ESPECIALLY ECONOMIC AND RELIABLE

30 YEARS
product guarantee[1]

30 YEARS
linear performance guarantee[1]



ECO LINE N-TYPE TOPCON GLASS-GLASS

M108 / 435 - 455W

MONOCRYSTALLINE MODULE FAMILY

Longlife tested
- Selection of components
- Back glass

Power proofed
- Performance surplus of 0 Wp to 6.49 Wp
- Higher heat dispensing

Safety provided
- PID free LID Free
- German warrantor

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ECO LINE N-TYPE TOPCON GLASS-GLASS

M108 / 435 - 455 W

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

Electrical data at STC

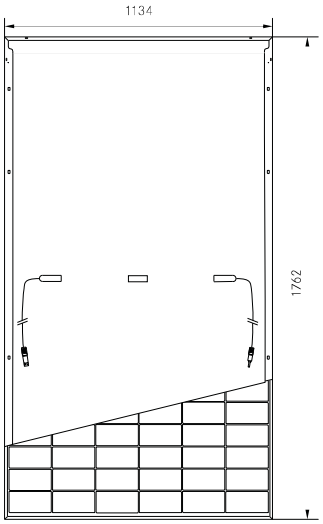
Rated power Pmpp [Wp]	435.00	440.00	445.00	450.00	455.00
Pmpp range to	441.49	446.49	451.49	456.49	461.49
Rated current Impp [A]	13.08	13.17	13.25	13.34	13.42
Rated voltage Vmpp [V]	33.28	33.44	33.60	33.76	33.92
Short-circuit current Isc [A]	13.83	13.92	14.01	14.10	14.19
Open-circuit voltage Uoc [V]	40.29	40.48	40.68	40.87	41.07
Efficiency at STC up to	22.10%	22.35%	22.60%	22.85%	23.10%
Efficiency at 200 W/m²	21.55%	21.81%	22.04%	22.30%	22.54%

Electrical data at NOCT

Power at Pmpp [Wp]	327.82	331.58	335.35	339.12	342.89
Rated current Impp [A]	10.56	10.63	10.70	10.77	10.83
Rated voltage Vmpp [V]	31.04	31.19	31.34	31.49	31.66
Short-circuit current Isc [A]	11.16	11.24	11.31	11.38	11.45
Open-circuit voltage Uoc [V]	37.19	37.38	37.57	37.76	37.96

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

Back - / Frontview[3,4]



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 to 85°C
Max. tested pressure load-/tensile[2]	5400 Pa / 2400 Pa

Temperature coefficient

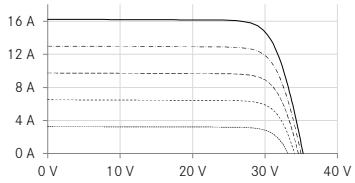
Temperature coefficient [U] | [I] | [P]	- 0.25 %/°C | 0.045 %/°C | -0.29 %/°C

Specifications

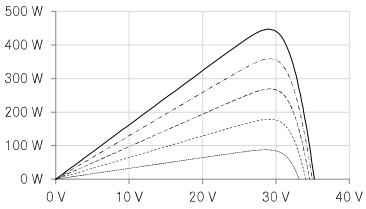
Cells (matrix) | Wafer | Type	108 (6 x 18) | M10 | N-Type TOPCon
Module dimensions (L x W x H)[3] | Weight	1762 mm x 1134 mm x 30 mm | 21,5 kg
Front-side	1.6 mm tempered highly transparent, anti-reflection solar glass
Back-side	1.6 mm tempered completely white coated glass
Frame	Stable, anodised aluminium frame
Embedding material	POE/EVA
Junction Box	At least IP67
Diodes	3 Schottky Diodes
Cable	Symmetrical cable lengths > 1.2 m, 4 mm² solar cable
Connectors	MC4 or equivalent with IP67
Hail test (max. hailstorm)	⌀ 35 mm | impact velocity 23 m/s ≙ 83 km/h

Electrical characteristics

UI -diagram e.g. 450 Wp



UP - diagram e.g. 450 Wp



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

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/downloads.html
2 Horizontal mounted, for details please check mounting instruction
3 Tolerance L/W = +/- 3 mm, H +/-2 mm, the dimensions given in the order confirmation will be decisive
4 Location and dimensios of holes on request

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/downloads.html