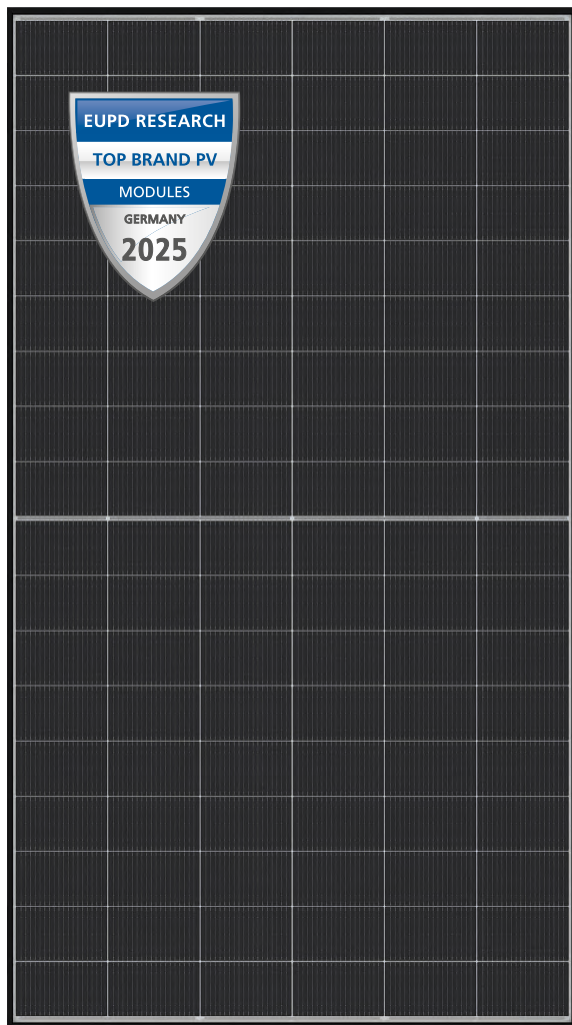




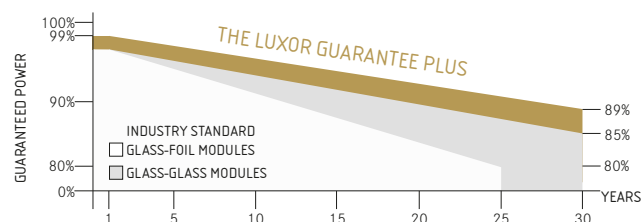
- + POWERFUL N-TYPE TOPCON CELLS
- + DOUBLE GLASS: HIGHER MECHANICAL AND THERMAL STABILITY
- + BIFACIAL: DOUBLE-SIDED POWER GENERATION FOR MORE YIELD
- + REDUCTION OF BOS-COSTS THROUGH HIGHER PERFORMANCE PER MODULE
- + APPLICATION: WHEREVER LONGEVITY AND ROBUSTNESS ARE REQUIRED



product guarantee¹



linear performance guarantee¹



ECO LINE N-TYPE TOPCON GLASS-GLASS BIF

M108 / 490 - 510W

MONOCRYSTALLINE MODULE FAMILY, BLACK FRAME, WHITE MESH



Longlife tested



Power proofed



Safety provided



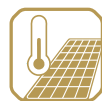
Selection of components



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 BIF

M108 / 490 - 510 W, BLACK FRAME, WHITE MESH

Module type

LX - XXXM/182R-108+ GG | XXX = Rated power Pmpp

Electrical data at STC

Rated power Pmpp [Wp]	490.00	495.00	500.00	505.00	510.00
Pmpp range to	496.49	501.49	506.49	511.49	516.49
Rated current Impp [A]	14.88	14.96	15.03	15.11	15.19
Rated voltage Vmpp [V]	32.96	33.12	33.28	33.44	33.60
Short-circuit current Isc [A]	15.73	15.81	15.89	15.97	16.06
Open-circuit voltage Uoc [V]	39.90	40.10	40.29	40.48	40.68
Efficiency at STC up to	22.34%	22.56%	22.79%	23.01%	23.24%
Efficiency at 200 W/m ²	21.83%	22.06%	22.27%	22.49%	22.72%

Electrical data at NOCT

Power at Pmpp [Wp]	369.26	373.03	376.80	380.57	384.34
Rated current Impp [A]	12.01	12.08	12.13	12.20	12.26
Rated voltage Vmpp [V]	30.75	30.88	31.06	31.19	31.35
Short-circuit current Isc [A]	12.70	12.76	12.83	12.89	12.96
Open-circuit voltage Uoc [V]	36.83	37.02	37.21	37.40	37.60

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

Bifacial Gain* (e.g. 500 Wp)

Backside power gain [Wp]	5%	10%	15%	20%	25%
Rated power Pmpp [Wp]	525.00	550.00	575.00	600.00	625.00
Rated current Impp [A]	15.78	16.53	17.28	18.02	18.77
Rated voltage Vmpp [V]	33.28	33.28	33.28	33.29	33.29
Short-circuit current Isc [A]	16.68	17.48	18.27	19.07	19.86
Open-circuit voltage Uoc [V]	40.29	40.29	40.29	40.30	40.30

*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 (IEC 61730)
Operating temperature	-40 up to 85 °C
Max. tested pressure/tensile load 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) Wafer Type	108 (6x18) M10 N-Type TOPCon
Module dimensions (L x W x H)3 Weight	1960 mm x 1134 mm x 30 mm 27.6 kg
Bifaciality factor ⁵	Up to 80%
Front side	2.0 mm tempered highly transparent anti-reflection solar glass
Back side	2.0 mm tempered highly transparent glass, white mesh
Frame	Stable anodised aluminium frame
Embedding material	POE / EVA
Junction Box Diodes	At least IP67 3 Schottky Diodes
Cable	Symmetrical cable lengths > 1.2 m, 4 mm ² solar cable
Connectors	MC4 or equivalent (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 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 (IEC61215), for details please check mounting instruction

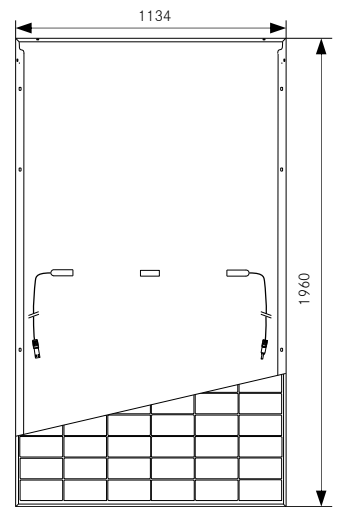
3 Tolerance L/W = +/- 3 mm, H +/- 2 mm, the dimensions given in the order confirmation will be decisive

4 Location and dimensios of holes on request

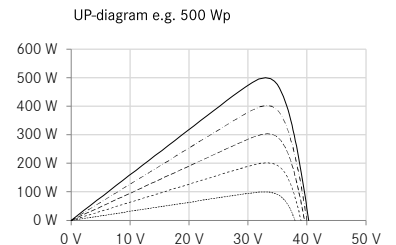
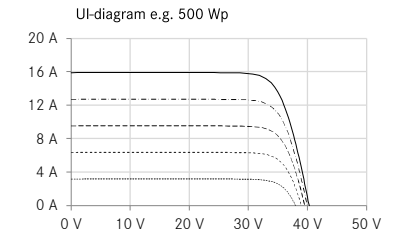
5 N-Type TOPCon Bifaciality factor 77 +/- 3 %

Your specialised Luxor partner

Back - / Frontview ^{3, 4}



Electrical characteristics



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