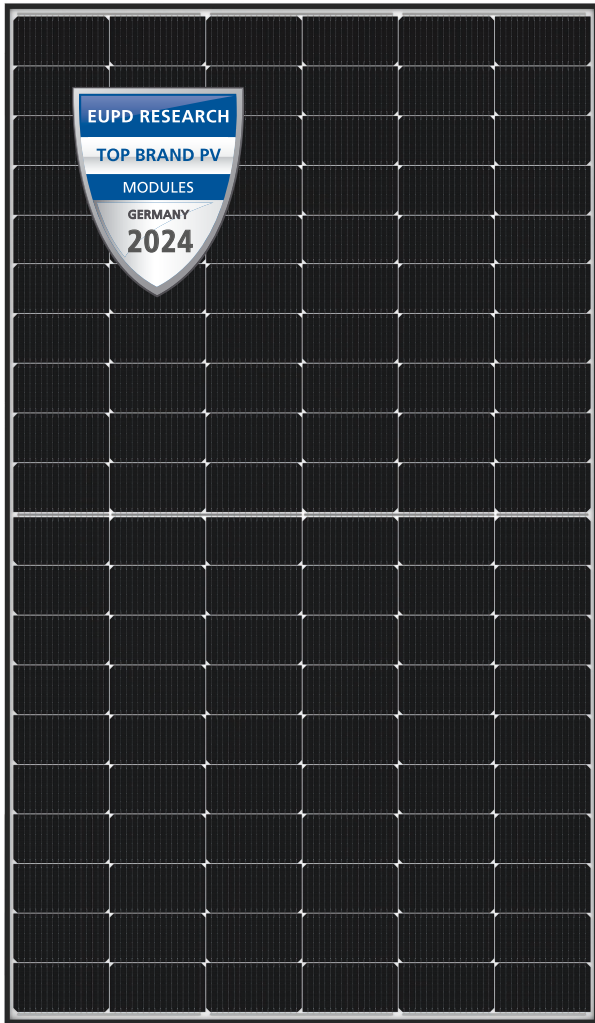




LUXOR

solar module manufacturer



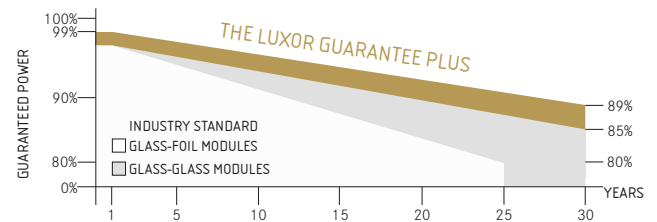
- + POWERFUL N-TYPE TOPCON CELLS
- + DOUBLE GLASS: HIGHER MECHANICAL STABILITY AND FIRE SAFETY
- + BIFACIAL: DOUBLE-SIDED POWER GENERATION FOR MORE YIELD
- + REDUCTION OF BOS-COSTS THROUGH HIGHER PERFORMANCE PER MODULE
- + APPLICATION: WHEREVER LONGEVITY AND ROBUSTNESS ARE REQUIRED



product guarantee¹



linear performance guarantee¹



ECO LINE N-TYPE TOPCON GLASS-GLASS BIF

M120/ 465 - 485W

MONOCRYSTALLINE MODULE FAMILY, WHITE MESH, BLACK FRAME



Longlife tested



Power proofed



Safety provided



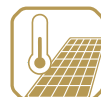
Selection of components



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

M120 / 465- 485W, WHITE MESH, BLACK FRAME

Module type LX - XXX M/182-120+ GG | XXX = Rated power Pmpp

Electrical data at STC

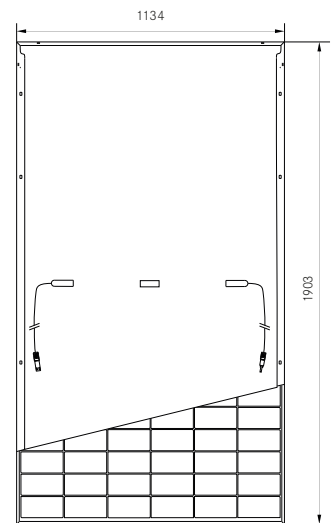
Rated power Pmpp [Wp]	465.00	470.00	475.00	480.00	485.00
Pmpp range to	471.49	476.49	481.49	486.49	491.49
Rated current Impp [A]	13.29	13.35	13.41	13.47	13.53
Rated voltage Vmpp [V]	35.02	35.23	35.44	35.65	35.86
Short-circuit current Isc [A]	14.02	14.08	14.15	14.21	14.27
Open-circuit voltage Uoc [V]	42.40	42.65	42.91	43.16	43.41
Efficiency at STC up to	21.85	22.08%	22.31%	22.54%	22.78%
Efficiency at 200 W/m ²	21.34%	21.56%	21.79%	22.02%	22.24%

Electrical data at NOCT

Power at Pmpp [Wp]	350.42	354.19	357.96	361.73	365.50
Rated current Impp [A]	10.73	10.78	10.82	10.87	10.92
Rated voltage Vmpp [V]	32.66	32.86	33.08	33.28	33.47
Short-circuit current Isc [A]	11.32	11.37	11.42	11.47	11.52
Open-circuit voltage Uoc [V]	39.14	39.38	39.63	39.88	40.12

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 1m/sec | ambient temperature 20°C | cell operating temperature 45 +/-2°C | Air Mass = 1.5

Back - / Frontview^{3,4}



Bifacial Gain* (e.g. 475 Wp)

Backside power gain [Wp]	5%	10%	15%	20%	25%
Rated power Pmpp [Wp]	498.75	522.50	546.25	570.00	593.75
Rated current Impp [A]	14.07	14.74	15.41	16.08	16.75
Rated voltage Vmpp [V]	35.44	35.44	35.44	35.45	35.45
Short-circuit current Isc [A]	14.86	15.57	16.27	16.98	17.69
Open-circuit voltage Uoc [V]	42.91	42.91	42.91	42.92	42.92

*depending on the reflection of the underlying surface

Limiting values

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

Cells (matrix) Wafer Type	120 (6 x 20) M10, Half Cell N-Type TOPCon
Bifaciality factor ⁵	Up to 80 %
Module dimensions (L x W x H) ³ Weight	1903 mm x 1134 mm x 30 mm 27 kg
Front-side glass	2 mm highly transparent, anti-reflection solar glass
Back-side	2 mm tempered, highly transparent solar 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 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 corresponds to DIN EN 50380. A potential light-induced degradation of the power after commissioning is not considered here.

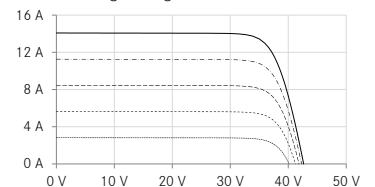
Further information in the installation manuals.

- 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
- Location and dimensios of holes on request
- N-Type TOPCon bifaciality factor 77 % +/- 3

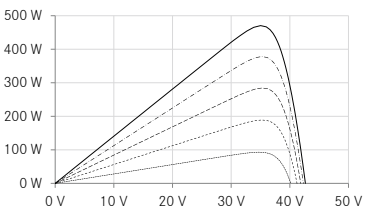
Luxor, your specialised company

Electrical characteristics

UI - diagram e.g. 470 W



UP - diagram e.g. 470W



..... 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