

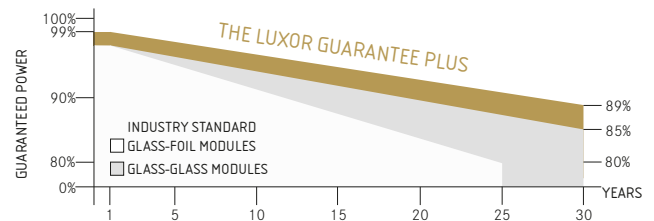
- + POWERFUL N-TYPE TOPCON CELLS
- + GLASS-GLASS: HIGHER MECHANICAL AND THERMAL STABILITY
- + BIFACIAL: DOUBLE-SIDED POWER GENERATION FOR MORE YIELD
- + REDUCTION OF BALANCE-OF-SYSTEM-COSTS THROUGH HIGHER PERFORMANCE PER MODULE
- + APPLICATION: WHEREVER LONGEVITY AND ROBUSTNESS ARE REQUIRED



product guarantee¹



linear performance guarantee¹



ECO LINE N-TYPE TOPCON GLASS-GLASS BIF

M144/ 560 - 580W

MONOCRYSTALLINE MODULE FAMILY, TRANSPARENT



Longlife tested



Power proofed



Safety provided



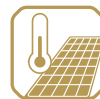
Selection of components



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

M144 / 560 - 580 W, TRANSPARENT

Module type LX - XXX M/182-144+ GG | XXX = Rated power Pmpp

Electrical data at STC

	560.00	565.00	570.00	575.00	580.00
Rated power Pmpp [Wp]	560.00	565.00	570.00	575.00	580.00
Pmpp range to	566.49	571.49	576.49	581.49	586.49
Rated current Impp [A]	13.33	13.37	13.41	13.45	13.48
Rated voltage Vmpp [V]	42.02	42.27	42.52	42.78	43.04
Short-circuit current Isc [A]	14.06	14.10	14.15	14.19	14.22
Open-circuit voltage Uoc [V]	50.87	51.17	51.48	51.79	52.11
Efficiency at STC up to	21.93%	22.12%	22.32%	22.51%	22.70%
Efficiency at 200 W/m ²	21.45%	21.65%	21.84%	22.04%	22.22%

Electrical data at NOCT

	421.12	424.88	428.64	432.40	436.16
Power at Pmpp [Wp]	421.12	424.88	428.64	432.40	436.16
Rated current Impp [A]	10.76	10.79	10.82	10.86	10.88
Rated voltage Vmpp [V]	39.14	39.38	39.62	39.82	40.09
Short-circuit current Isc [A]	11.35	11.38	11.42	11.45	11.48
Open-circuit voltage Uoc [V]	46.95	47.25	47.55	47.85	48.16

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

Bifacial Gain* (e.g. 570 Wp)

	5%	10%	15%	20%	25%
Backside power gain [Wp]	5%	10%	15%	20%	25%
Rated power Pmpp [Wp]	598.50	627.00	655.50	684.00	712.50
Rated current Impp [A]	14.08	14.75	15.42	16.08	16.75
Rated voltage Vmpp [V]	42.52	42.52	42.52	42.53	42.53
Short-circuit current Isc [A]	14.86	15.57	16.27	16.98	17.69
Open-circuit voltage Uoc [V]	51.48	51.48	51.48	51.49	51.49

*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 -0.30 %/°C
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Specifications

Cells (matrix) Wafer Type	144 (6 x 24) M10, Half-Cell N-Type TOPCon
Module dimensions (L x W x H) ³ Weight	2279 mm x 1134 mm x 35 mm 32.7 kg
Bifaciality factor ⁵ Transparency	Up to 83% approx. 5%
Front-side glass	2 mm tempered, highly transparent, anti-reflection solar glass
Back-side	2 mm tempered, highly transparent solar glass
Frame	Stable, anodised aluminium frame
Embedding material	POE / EVA
Junction Box Diodes	At least IP67 3 Schottky Diodes
Cable	Symmetrical cable lengths > 1.4 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

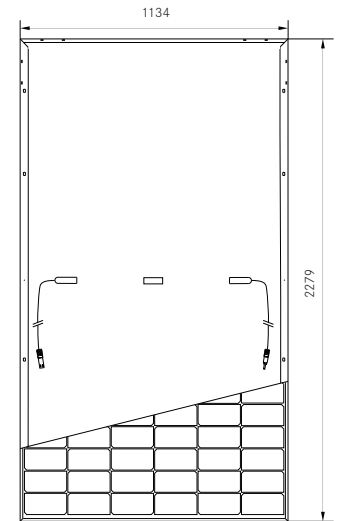
The specifications and average values can vary slightly. Relevant is the corresponding data of the individual measurement. Specifications are subject to change without notice. Measurement tolerance depending on equipment: rated power +/- 3%, other values +/- 10%. All information given in this data sheet 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
- Frame drawing, location and dimensions of holes on request
- N-Type TOPCon Bifaciality 80% +/- 3%

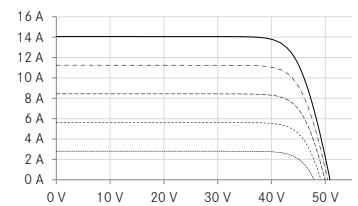
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Back - / Frontview^{3,4}

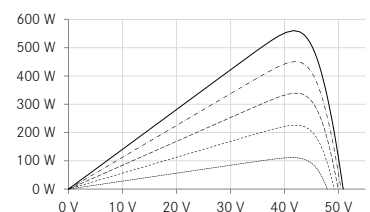


Electrical characteristics

UI - diagram e.g. 560 Wp



UP - diagram e.g. 560 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