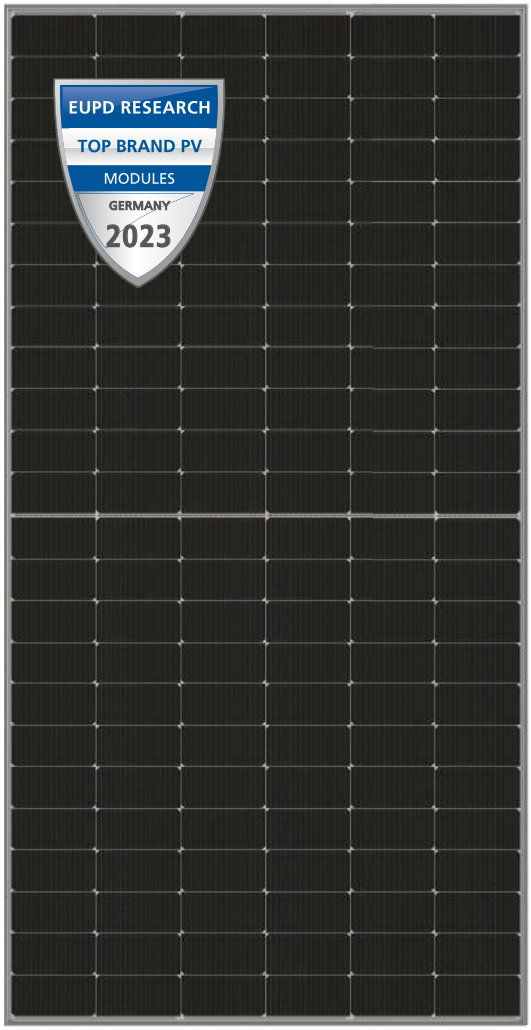
LUXOR

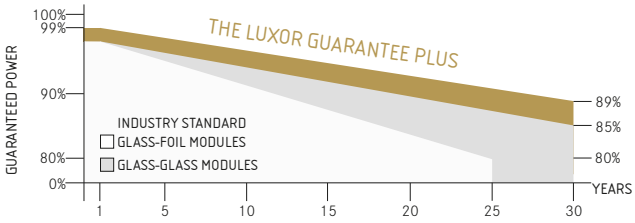
solar module manufacturer since 2007



- + 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

30 YEARS
product guarantee[1]

30 YEARS
linear performance guarantee[1]



ECO LINE N-TYPE TOPCON GLASS-GLASS BIF

M144/ 560 - 580W

MONOCRYSTALLINE MODULE FAMILY, TRANSPARENT

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 BIFACIAL

M144 / 560 - 580 W, TRANSPARENT

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

Electrical data at STC

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/m²	21.45%	21.65%	21.84%	22.04%	22.22%

Electrical data at NOCT

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 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. 570 Wp)

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

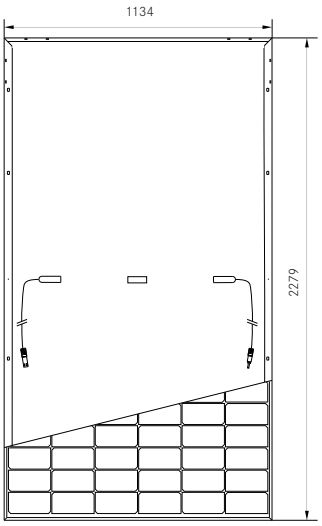
Temperature coefficient

Temperature coefficient [U] | [I] | [P]	-0.25 %/°C | 0.045 %/°C | -0.30 %/°C

Specifications

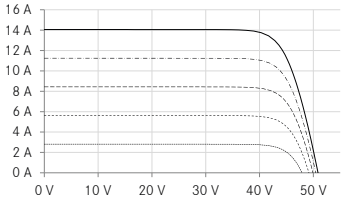
Cells (matrix) | Wafer | Type	144 (6 x24) I M10, Half-Cell | N-Type TOPCon
Module dimensions (L x W x H)[3] | Weight	2279 mm x 1134 mm x 35 mm | 32.7 kg
Bifaciality factor[5] | Transparecy	Up to 83 % | approx. 5 %
Front-side glass	2 mm tempered, highly transparent, anti-reflection solar glass
Back-side	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 mm² solar cable
Connectors	MC4 or equivalent with IP67
Hail test (max. hailstorm)	⌀ 45 mm | impact velocity 23 m/s ≙ 83 km/h

Back - / Frontview[3,4]

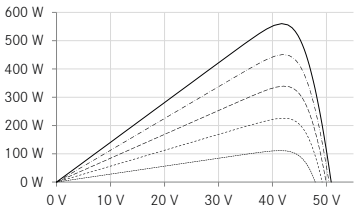


Electrical characteristics

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

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 Frame drawing, location and dimensios of holes on request
5 N-Type TOPCon Bifaciality 80 % +/- 3 %

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

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