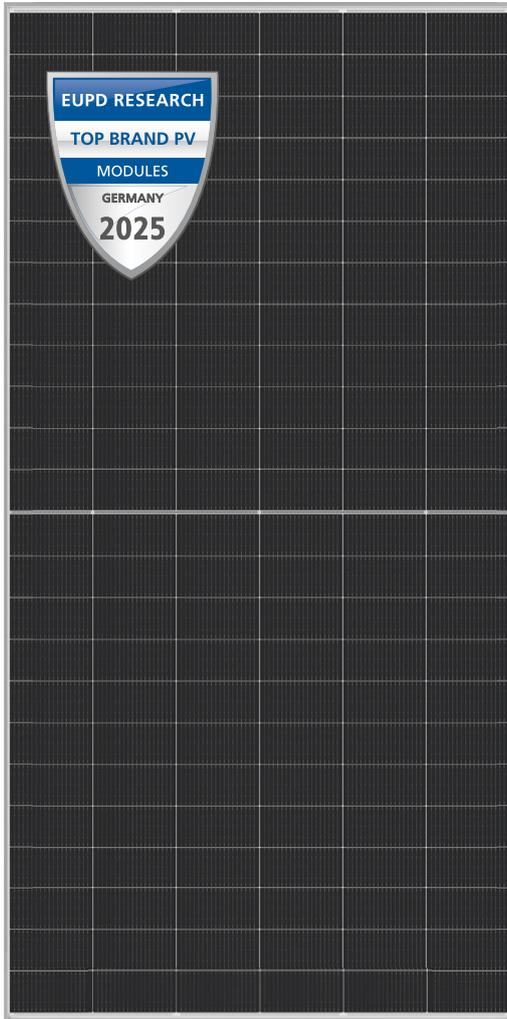




LUXOR

solar module manufacturer



- + POWERFUL N-TYPE TOPCON CELLS
- + DOUBLE 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 PRO 575-595W

TOPCON SILVER WHITE

GLASS-GLASS, BIFACIAL, 2279MM X 1134MM



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 PRO 575-595W

TOPCON, GLASS-GLASS, BIFACIAL, SW, 182-144+

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

Electrical data at STC

| | | | | | |
|------------------------------------|--------|--------|--------|--------|--------|
| Rated power Pmpp [Wp] | 575.00 | 580.00 | 585.00 | 590.00 | 595.00 |
| Pmpp range to | 581.49 | 586.49 | 591.49 | 596.49 | 601.49 |
| Rated current Impp [A] | 13.45 | 13.48 | 13.52 | 13.55 | 13.58 |
| Rated voltage Vmpp [V] | 42.78 | 43.04 | 43.30 | 43.56 | 43.82 |
| Short-circuit current Isc [A] | 14.31 | 14.34 | 14.38 | 14.41 | 14.45 |
| Open-circuit voltage Uoc [V] | 51.79 | 52.11 | 52.42 | 52.74 | 53.05 |
| Efficiency at STC up to | 22.51% | 22.70% | 22.90% | 23.09% | 23.28% |
| Efficiency at 200 W/m ² | 22.04% | 22.22% | 22.42% | 22.61% | 22.79% |

Electrical data at NOCT

| | | | | | |
|-------------------------------|--------|--------|--------|--------|--------|
| Power at Pmpp [Wp] | 433.32 | 437.09 | 440.86 | 444.62 | 448.39 |
| Rated current Impp [A] | 10.86 | 10.88 | 10.91 | 10.94 | 10.96 |
| Rated voltage Vmpp [V] | 39.90 | 40.17 | 40.41 | 40.64 | 40.91 |
| Short-circuit current Isc [A] | 11.55 | 11.58 | 11.61 | 11.63 | 11.66 |
| Open-circuit voltage Uoc [V] | 47.80 | 48.11 | 48.42 | 48.73 | 49.03 |

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

Electrical data at BNPI

| | | | | | |
|-------------------------------|--------|--------|--------|--------|--------|
| Rated power Pmpp [Wp] | 575.00 | 580.00 | 585.00 | 590.00 | 595.00 |
| Maximum Rated power Pmpp [Wp] | 637.10 | 642.64 | 648.18 | 653.72 | 659.26 |
| Rated current Impp [A] | 14.90 | 14.94 | 14.98 | 15.01 | 15.05 |
| Rated voltage Vmpp [V] | 42.75 | 43.03 | 43.27 | 43.54 | 43.81 |
| Short-circuit current Isc [A] | 15.86 | 15.89 | 15.93 | 15.97 | 16.01 |
| Open-circuit voltage Uoc [V] | 51.84 | 52.16 | 52.47 | 52.79 | 53.10 |

Specifications as per BNPI (Bifacial Nameplate Irradiance): irradiance front 1000 W/m² | rear 135 W/m² | Temperature 25°C | Air Mass 1.5

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 |
|---|--------------------------------------|

Specifications

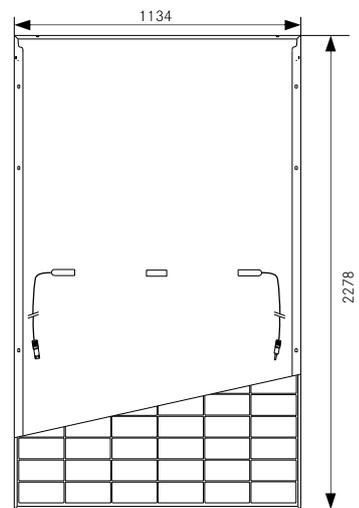
| | |
|---|---|
| Cells (matrix) Wafer Type | 144 (6x24) M10 N-Type TOPCon |
| Module dimensions (L x B x H) ³ Weight | 2279 mm x 1134 mm x 30 mm 31.5 kg |
| Bifaciality factor ⁵ | Up to 80% |
| Front side | 2.0 mm semi tempered anti-reflection solar glass |
| Back side | 2.0 mm semi tempered solar glass, white mesh |
| Frame | Stable anodised aluminium frame |
| Embedding material | POE / EVA |
| Junction Box Diodes | IP68 3 Schottky Diodes |
| Cable | Asymmetrical cable lengths > 0.4 & 0.3 m, 4 mm ² solar cable |
| Connectors | MC4 or equivalent (IP67) |
| Hail test (max. hailstorm) | Ø 45 mm impact velocity 30.7 m/s ± 110.5 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. 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 (IEC61215), 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 dimensions of holes on request
- N-Type TOPCon Bifaciality factor 77 +/- 3 %

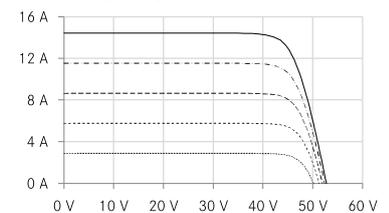
Your specialised Luxor partner

Back - / Frontview^{3, 4}

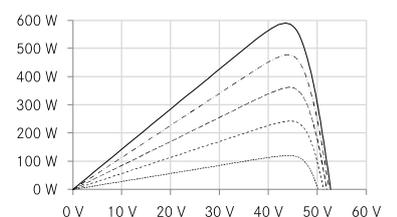


Electrical characteristics

UI-diagram e.g. 590 Wp



UP-diagram e.g. 590 Wp



..... 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