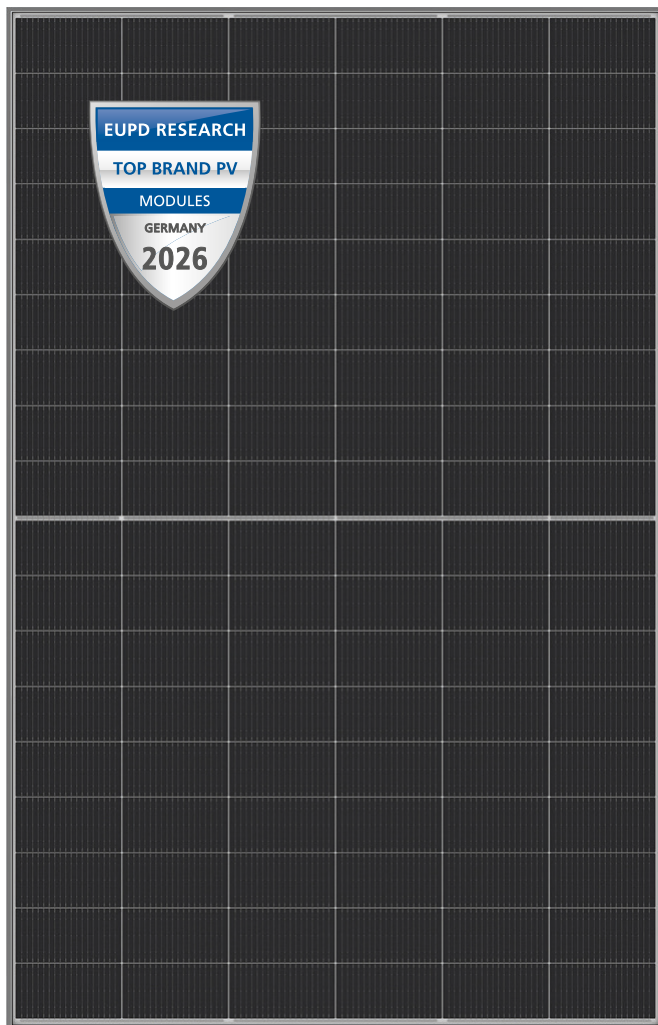


CLASSIC

LUXOR

solar module manufacturer



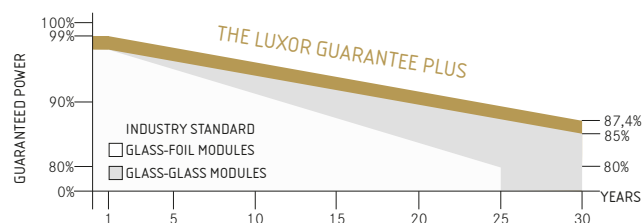
- + POWERFUL N-TYPE TOPCON CELLS
- + DOUBLE GLASS: HIGHER MECHANICAL AND THERMAL STABILITY
- + BIFACIAL: DOUBLE-SIDED POWER GENERATION FOR MORE YIELD
- + REDUCTION OF BALANCE-OF-SYSTEM-COSTS THROUGH HIGHER PERFORMANCE PER MODULE
- + ECONOMICAL AND ROBUST MODULE DESIGN



product guarantee¹



linear performance guarantee¹



ECO LINE CLASSIC 445-465W

TOPCON SILVER WHITE

GLASS-GLASS, BIFACIAL, 1762MM X 1134MM



Longlife tested



Power proofed



Safety provided



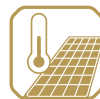
Selection of components



Back glass



Performance surplus of 0 Wp to 6.49 Wp



Higher heat dispensing



PID free
LID Free



German warrantor

ECO LINE CLASSIC 445-465W

TOPCON, Glass-Glass, BIFACIAL, SW, 182R188-108+

Module type

LX - XXXM/182R188-108+ GG | XXX = Rated power Pmpp

Electrical data at STC

Rated power Pmpp [Wp]	445.00	450.00	455.00	460.00	465.00
Pmpp range to	451.49	456.49	461.49	466.49	471.49
Rated current Impp [A]	13.73	13.80	13.87	13.94	14.00
Rated voltage Vmpp [V]	32.44	32.63	32.83	33.03	33.23
Short-circuit current Isc [A]	14.51	14.59	14.66	14.74	14.80
Open-circuit voltage Uoc [V]	38.85	39.08	39.32	39.56	39.80
Efficiency at STC up to	22.60%	22.85%	23.10%	23.35%	23.60%
Efficiency at 200 W/m ²	22.05%	22.30%	22.55%	22.80%	23.04%

Electrical data at NOCT

Power at Pmpp [Wp]	335.35	339.12	342.89	346.66	350.42
Rated current Impp [A]	11.08	11.14	11.20	11.25	11.30
Rated voltage Vmpp [V]	30.27	30.44	30.62	30.81	31.01
Short-circuit current Isc [A]	11.71	11.78	11.83	11.90	11.95
Open-circuit voltage Uoc [V]	35.86	36.08	36.32	36.55	36.78

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. 455 Wp)

Backside power gain [Wp]	5%	10%	15%	20%	25%
Rated power Pmpp [Wp]	477.75	500.50	523.25	546.00	568.75
Rated current Impp [A]	14.55	15.25	15.94	16.63	17.32
Rated voltage Vmpp [V]	32.83	32.83	32.83	32.84	32.84
Short-circuit current Isc [A]	15.39	16.13	16.86	17.59	18.33
Open-circuit voltage Uoc [V]	39.32	39.32	39.32	39.33	39.33

*depending on the reflection of the underlying surface

Limiting values

Max. system voltage max. return current	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	1762 mm x 1134 mm x 30 mm 24.5 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	At least IP67 3 Schottky Diodes
Cable	Symmetrical cable lengths > 1.1 m, 4 mm ² solar cable
Connectors	MC4 connectable
Hail test (max. hailstorm)	Ø 25 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. 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

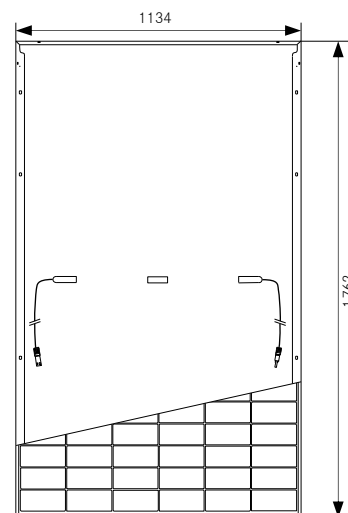
3 Tolerance L/W = +/- 3 mm, H +/- 2 mm, the dimensions given in the order confirmation will be decisive

4 Location and dimensions of holes on request

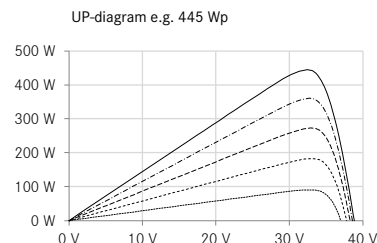
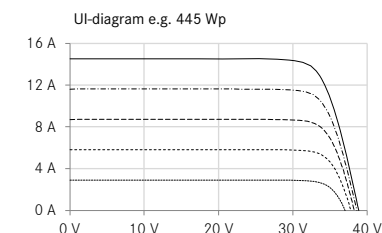
5 N-Type TOPCon Bifaciality factor 77 +/- 3 %

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