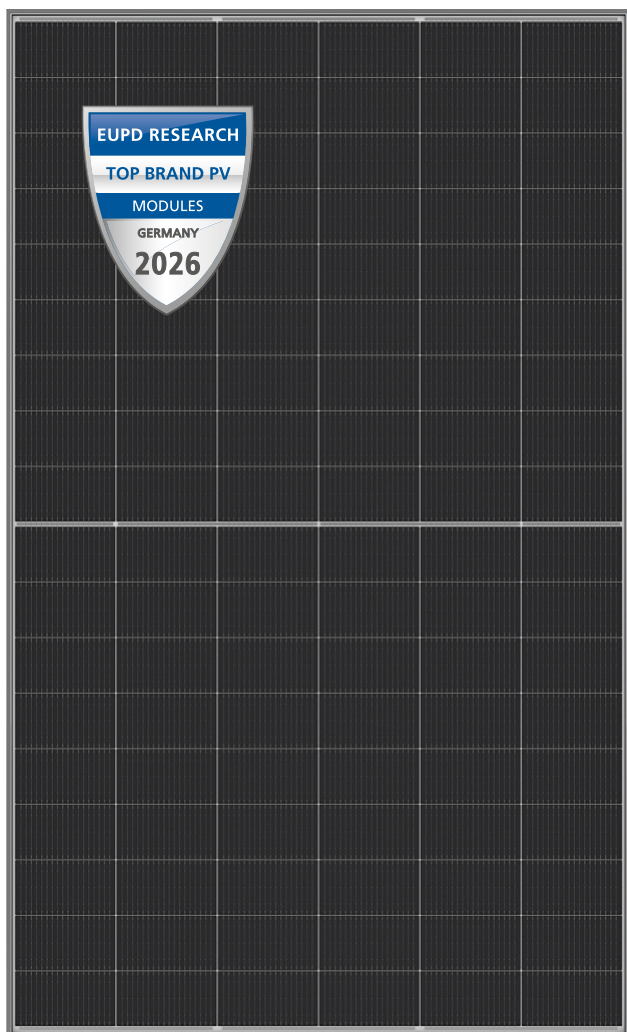


CLASSIC

LUXOR

solar module manufacturer



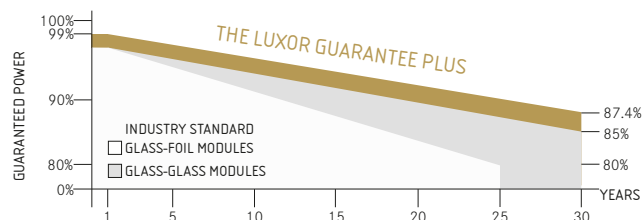
- + POWERFUL N-TYPE TOPCON CELLS
- + DOUBLE GLASS: HIGHER MECHANICAL AND THERMAL STABILITY
- + BIFACIAL: DOUBLE-SIDED POWER GENERATION FOR MORE YIELD
- + REDUCTION OF BALANCE-OF-SYSTEM-COSTS THROUGH HIGHER PERFORMANCE PER MODULE
- + ECONOMICAL AND ROBUST MODULE DESIGN



product guarantee¹



linear performance guarantee¹



ECO LINE CLASSIC 440-460W

TOPCON SILVER WHITE

GLASS-GLASS, BIFACIAL, 1722MM X 1134MM



Longlife tested



Power proofed



Safety provided



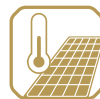
Selection of components



Back glass



Performance surplus of 0 Wp to 6.49 Wp



Higher heat dispensing



PID free
LID Free



German warranty

ECO LINE CLASSIC 440-460W

TOPCON, GLASS-GLASS, BIFACIAL, SW, 182-108+

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

Electrical data at STC

Rated power Pmpp [Wp]	440.00	445.00	450.00	455.00	460.00
Pmpp range to	446.49	451.49	456.49	461.49	466.49
Rated current Imp [A]	13.65	13.72	13.79	13.86	13.93
Rated voltage Vmpp [V]	32.27	32.46	32.65	32.85	33.05
Short-circuit current Isc [A]	14.40	14.47	14.55	14.62	14.69
Open-circuit voltage Uoc [V]	39.07	39.30	39.53	39.77	40.01
Efficiency at STC up to	22.86%	23.12%	23.38%	23.63%	23.89%
Efficiency at 200 W/m ²	22.32%	22.56%	22.81%	23.07%	23.33%

Electrical data at NOCT

Power at Pmpp [Wp]	331.58	335.35	339.12	342.89	346.66
Rated current Imp [A]	11.02	11.07	11.13	11.19	11.24
Rated voltage Vmpp [V]	30.09	30.29	30.47	30.64	30.84
Short-circuit current Isc [A]	11.62	11.68	11.74	11.80	11.86
Open-circuit voltage Uoc [V]	36.06	36.29	36.51	36.74	36.98

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]	440.00	445.00	450.00	455.00	460.00
Maximum Rated power Pmpp [Wp]	487.52	493.06	498.60	504.14	509.68
Rated current Imp [A]	15.12	15.20	15.28	15.36	15.43
Rated voltage Vmpp [V]	32.23	32.43	32.63	32.83	33.02
Short-circuit current Isc [A]	15.96	16.03	16.12	16.20	16.28
Open-circuit voltage Uoc [V]	39.11	39.34	39.57	39.81	40.05

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
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Specifications

Cells (matrix) Wafer Type	108 (6x18) M10 N-Type TOPCon
Module dimensions (L x B x H) ³ Weight	1722 mm x 1134 mm x 30 mm 24.0 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	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

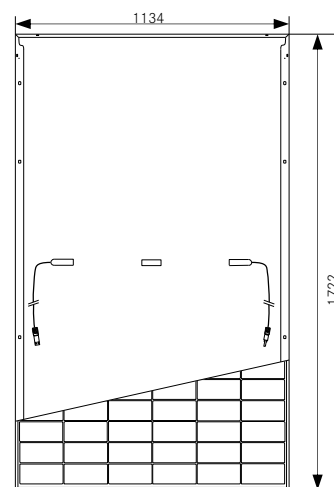
2 Horizontal mounted (IEC 61215), for details please check mounting instruction

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

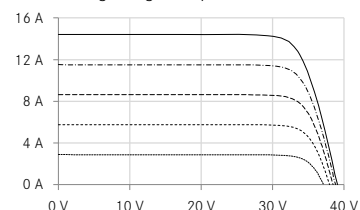
5 N-Type TOPCon Bifaciality factor 77 +/- 3 %

Back - / Frontview ^{3, 4}

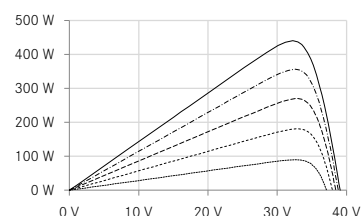


Electrical characteristics

UI-diagram e.g. 440 Wp



UP-diagram e.g. 440 Wp



200W/m²
400W/m²
600W/m²
800W/m²
1000W/m²



IEC
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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