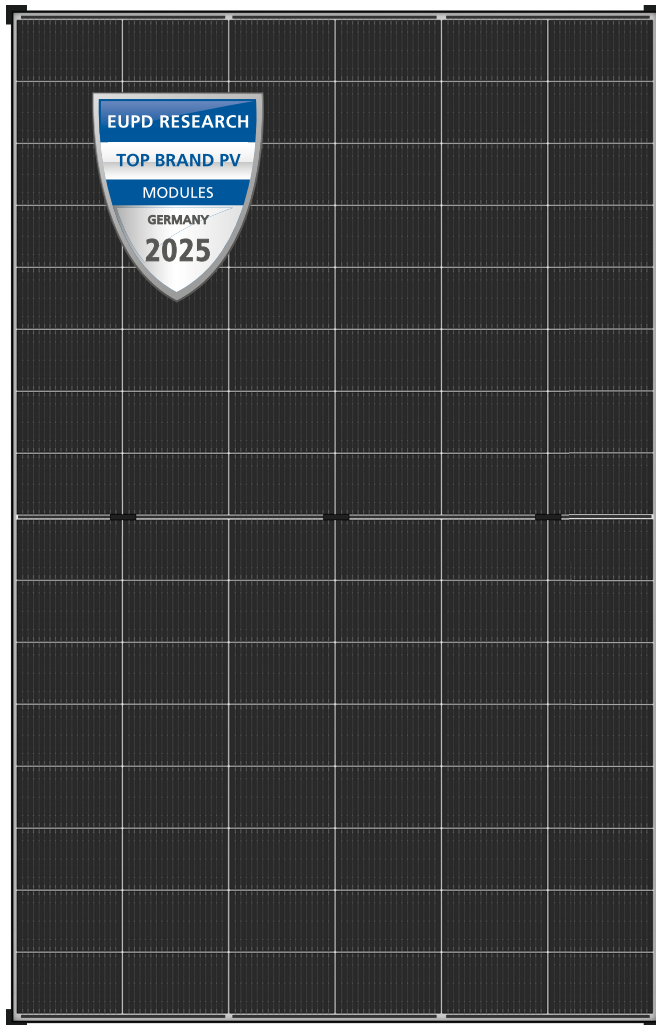


LUXOR

solar module manufacturer



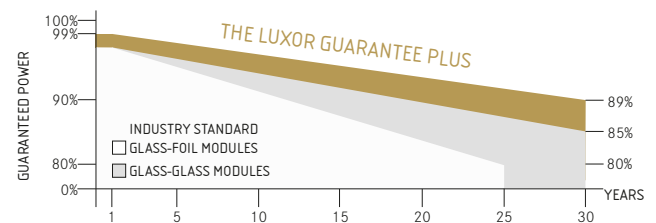
- + POWERFUL N-TYPE TOPCON CELLS
- + GLASS-GLASS: HIGHER MECHANICAL AND THERMAL STABILITY
- + BIFACIAL: DOUBLE-SIDED POWER GENERATION FOR MORE YIELD
- + HIGH CLASS APPEARANCE: EASY INTEGRATION IN BUILDINGS
- + SPECIAL EDGE SEALING
- + ESPECIALLY DURABLE AND ROBUST



product guarantee¹



linear performance guarantee¹



ECO LINE TOPCON GLASS-GLASS BIFACIAL

M96 / 435 - 455 W

MONOCRYSTALLINE MODULE FAMILY, FRAMELESS, TRANSPARENT



Longlife tested



Power proofed



Safety provided



Edge-Sealing



Back glass



Performance surplus
of 0 Wp to 6.49 Wp



Higher heat
dispensing



PID free
LID free



German
warrantor

ECO LINE TOPCON GLASS-GLASS BIFACIAL

M96 / 435 - 455 W, FRAMELESS, TRANSPARENT

Module type LX - XXXM/182R-96+ GG | XXX = Rated power Pmpp

Electrical data at STC

Rated power Pmpp [Wp]	435.00	440.00	445.00	450.00	455.00
Pmpp range to	441.49	446.49	451.49	456.49	461.49
Rated current Imp [A]	14.97	15.07	15.17	15.27	15.36
Rated voltage Vmpp [V]	29.08	29.22	29.36	29.50	29.64
Short-circuit current Isc [A]	15.82	15.93	16.04	16.14	16.24
Open-circuit voltage Uoc [V]	35.21	35.38	35.54	35.71	35.88
Efficiency at STC up to	22.29%	22.54%	22.79%	23.05%	23.30%
Efficiency at 200 W/m ²	21.74%	22.00%	22.25%	22.50%	22.74%

Electrical data at NOCT

Power at Pmpp [Wp]	327.82	331.58	335.35	339.12	342.89
Rated current Imp [A]	12.08	12.16	12.25	12.33	12.40
Rated voltage Vmpp [V]	27.14	27.27	27.38	27.50	27.65
Short-circuit current Isc [A]	12.77	12.86	12.95	13.03	13.11
Open-circuit voltage Uoc [V]	32.50	32.67	32.82	32.99	33.16

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

Electrical data at BNPI

Rated power Pmpp [Wp]	435,00	440,00	445,00	450,00	455,00
Maximum Rated power Pmpp [Wp]	483.74	489.30	494.86	500.42	505.98
Rated current Imp [A]	16.65	16.76	16.87	16.98	17.08
Rated voltage Vmpp [V]	29.06	29.20	29.33	29.47	29.62
Short-circuit current Isc [A]	17.59	17.71	17.84	17.95	18.06
Open-circuit voltage Uoc [V]	35.25	35.42	35.58	35.75	35.92

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	1200 Pa / 600 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	96 (6x16) M10 N-Type TOPCon
Module dimensions (L x B x H) ³ Weight	1756 mm x 1128 mm x 5 mm 23.5 kg
Bifaciality factor ⁴ Transparency	Up to 83% approx. 4 %
Front side	2.0 mm semi tempered anti-reflection solar glass
Back side	2.0 mm semi tempered solar glass
Frame	Frameless version
Embedding material	POE / EVA
Junction Box Diodes	At least IP67 3 Schottky Diodes
Cable	Asymmetrical cable lengths > 1.1 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.

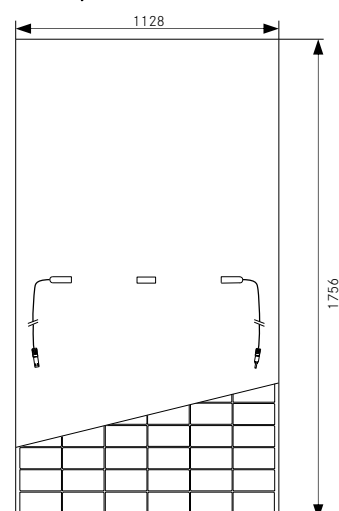
1 The specific warranty conditions are given under www.luxor.solar/downloads.html

2 Horizontal mounted (IEC61215), for details please check mounting instruction

3 Tolerance L/W = +/- 3 mm, H +/- 0.5 mm. the dimensions given in the order confirmation will be decisive

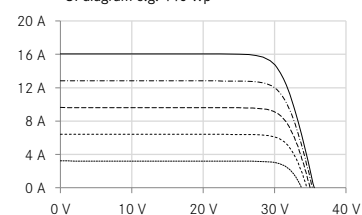
4 N-Type TOPCon Bifaciality factor 80 +/- 3 %

Back - / Frontview³

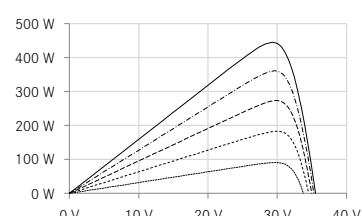


Electrical characteristics

UI-diagram e.g. 445 Wp



UP-diagram e.g. 445 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

Your specialised Luxor partner