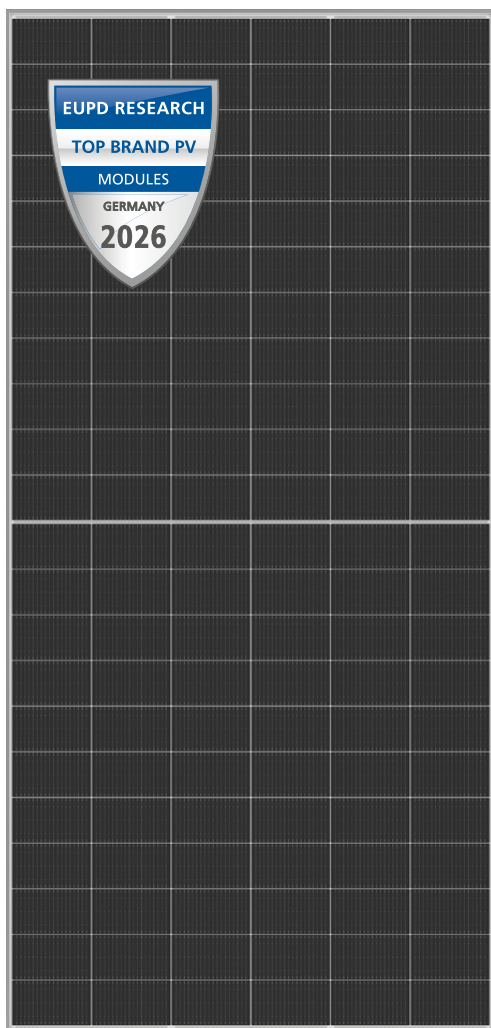




LUXOR

solar module manufacturer



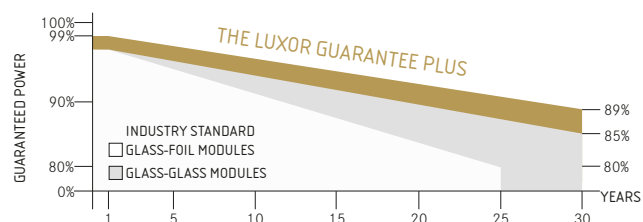
- + POWERFUL N-TYPE TOPCON CELLS
- + DOUBLE GLASS: HIGHER MECHANICAL AND THERMAL STABILITY
- + BIFACIAL: DOUBLE-SIDED POWER GENERATION FOR MORE YIELD
- + REDUCTION OF BALANCE-OF-SYSTEM-COSTS THROUGH HIGHER PERFORMANCE PER MODULE
- + APPLICATION: WHEREVER LONGEVITY AND ROBUSTNESS ARE REQUIRED



product guarantee¹



linear performance guarantee¹



ECO LINE PRO 620-640W

TOPCON SILVER WHITE

GLASS-GLASS, BIFACIAL, 2382MM X 1134MM



Longlife tested



Power proofed



Safety provided



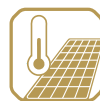
Selection of components



Back glass



Performance surplus of 0 Wp to 6.49 Wp



Higher heat dispensing



PID free
LID Free



German warrantor

ECO LINE PRO 620-640W

TOPCON, GLASS-GLASS, BIFACIAL, SW, 182R-132+

Module type LX - XXXM/182R-132+ GG | XXX = Rated power Pmpp

Electrical data at STC

Rated power Pmpp [Wp]	620.00	625.00	630.00	635.00	640.00
Pmpp range to	626.49	631.49	636.49	641.49	646.49
Rated current Imp [A]	15.42	15.47	15.52	15.57	15.62
Rated voltage Vmpp [V]	40.22	40.41	40.60	40.79	40.99
Short-circuit current Isc [A]	16.30	16.35	16.41	16.46	16.51
Open-circuit voltage Uoc [V]	48.69	48.92	49.15	49.38	49.62
Efficiency at STC up to	23.19%	23.38%	23.56%	23.75%	23.93%
Efficiency at 200 W/m ²	22.72%	22.90%	23.08%	23.26%	23.45%

Electrical data at NOCT

Power at Pmpp [Wp]	467.23	471.00	474.77	478.54	482.30
Rated current Imp [A]	12.45	12.49	12.53	12.57	12.61
Rated voltage Vmpp [V]	37.53	37.71	37.89	38.07	38.25
Short-circuit current Isc [A]	13.16	13.20	13.25	13.29	13.33
Open-circuit voltage Uoc [V]	44.94	45.17	45.39	45.62	45.86

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]	620.00	625.00	630.00	635.00	640.00
Maximum Rated power Pmpp [Wp]	686.96	692.50	698.04	703.58	709.12
Rated current Imp [A]	17.09	17.14	17.20	17.25	17.31
Rated voltage Vmpp [V]	40.21	40.40	40.59	40.78	40.97
Short-circuit current Isc [A]	18.06	18.12	18.18	18.24	18.29
Open-circuit voltage Uoc [V]	48.74	48.97	49.20	49.43	49.67

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	132 (6x22) M10 N-Type TOPCon
Module dimensions (L x B x H) ³ Weight	2382 mm x 1134 mm x 30 mm 33.5 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	Symmetrical cable lengths > 1.4 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

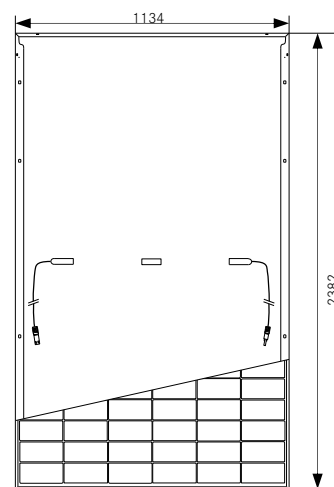
2 Horizontal mounted (IEC 61215), for details please check mounting instruction

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

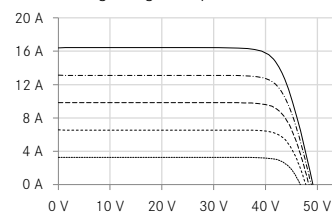
5 N-Type TOPCon Bifaciality factor 77 +/- 3 %

Back - / Frontview ^{3, 4}

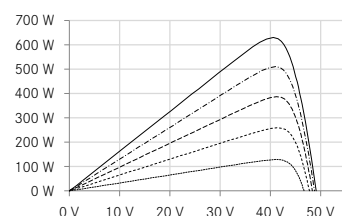


Electrical characteristics

UI-diagram e.g. 630 Wp



UP-diagram e.g. 630 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

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