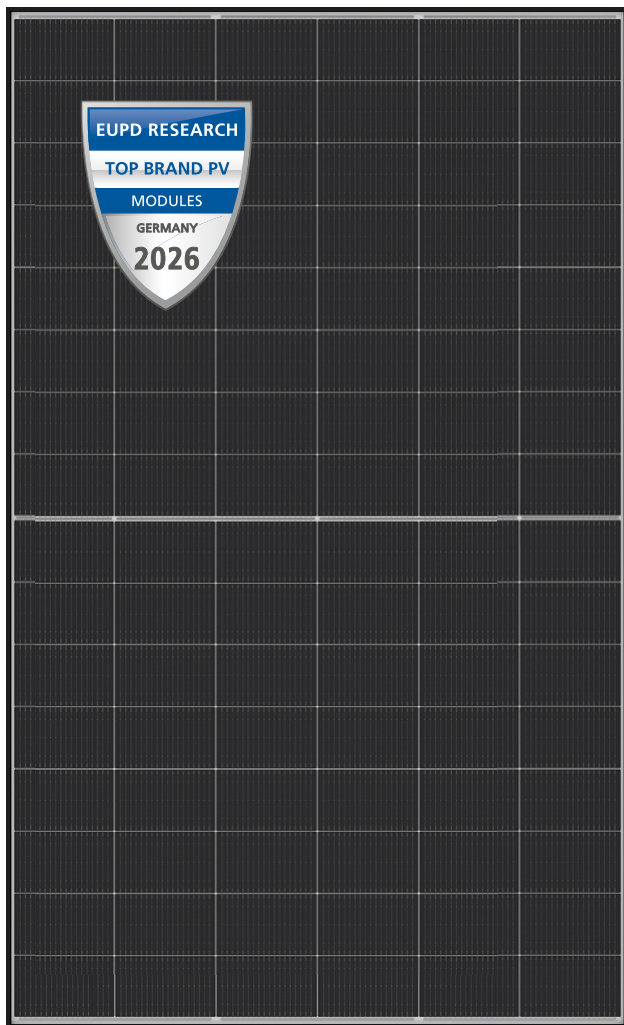




LUXOR

solar module manufacturer



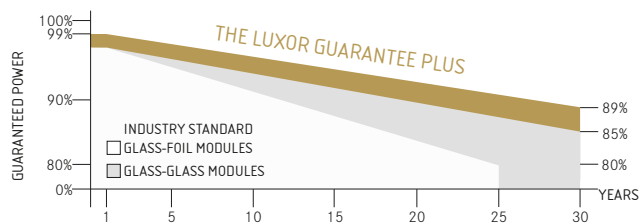
- + POWERFUL N-TYPE TOPCON CELLS
- + DOUBLE GLASS: HIGHER MECHANICAL AND THERMAL STABILITY
- + REDUCTION OF BALANCE-OF-SYSTEM-COSTS THROUGH HIGHER PERFORMANCE PER MODULE
- + APPLICATION: WHEREVER LONGEVITY AND ROBUSTNESS ARE REQUIRED



product guarantee¹



linear performance guarantee¹



ECO LINE PRO 470-490W

TOPCON BLACK WHITE

GLASS-GLASS, 1762MM X 1134MM



Longlife tested



Power proofed



Safety provided



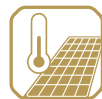
Selection of components



Back glass



Performance surplus of 0 Wp to 6.49 Wp



Higher heat dispensing



PID free
LID Free



German warrantor

ECO LINE PRO 470-490W

TOPCON, GLASS-GLASS, BW, 182R-96+

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

Electrical data at STC

Rated power Pmpp [Wp]	470.00	475.00	480.00	485.00	490.00
Pmpp range to	476.49	481.49	486.49	491.49	496.49
Rated current Impp [A]	15.29	15.37	15.46	15.55	15.63
Rated voltage Vmpp [V]	30.77	30.92	31.07	31.22	31.37
Short-circuit current Isc [A]	16.16	16.25	16.34	16.44	16.52
Open-circuit voltage Uoc [V]	36.85	37.03	37.21	37.39	37.57
Efficiency at STC up to	23.85%	24.10%	24.35%	24.60%	24.85%
Efficiency at 200 W/m ²	23.30%	23.53%	23.79%	24.04%	24.28%

Electrical data at NOCT

Power at Pmpp [Wp]	354.19	357.96	361.73	365.50	369.26
Rated current Impp [A]	12.34	12.41	12.48	12.55	12.62
Rated voltage Vmpp [V]	28.70	28.84	28.98	29.12	29.26
Short-circuit current Isc [A]	13.04	13.12	13.19	13.27	13.33
Open-circuit voltage Uoc [V]	34.01	34.19	34.37	34.54	34.72

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

Limiting values

Max. system voltage max. return current	1500 V 30 A
Safety class Operating temperature	II -40 bis 85°C
Max. tested pressure/tensile load ²	6000 Pa/ 4000 Pa
Fire safety class	C (IEC 61730), B2 (DIN4102-1), E (EN13501-1), Broof(t2) (EN13501-5)

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	1762 mm x 1134 mm x 30 mm 24.5 kg
Front side	2.0 mm semi tempered anti-reflection solar glass
Back side	2.0 mm semi tempered solar glass, white
Frame Embedding material	Stable anodised aluminium frame POE / EVA
Junction Box	IP68
Diodes	3 Schottky Diodes
Cable	Symmetrical cable lengths > 1.1 m, 4 mm ² solar cable
Connectors	MC4-Evo2
Hail test (max. hailstorm)	Ø 45 mm impact velocity 30.7 m/s ± 110.5 km/h
Hail resistance class according to IEC	HW 4 (IEC 61215)

The specifications and average values can vary slightly.

Relevant is the corresponding data of the individual measurement. Specifications are subject to change without notice.

Measurement tolerance depending on equipment: rated power +/- 3%, other values +/- 10%.

All information given in this datasheet 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.

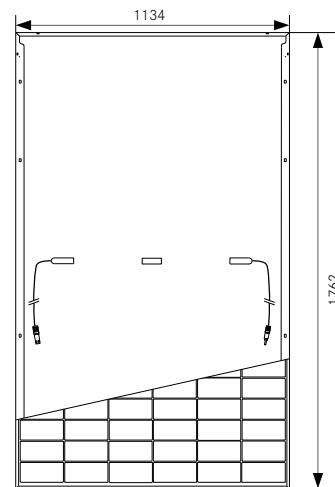
1 The specific warranty conditions for end customers are given under www.luxor.solar/downloads.html.

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.

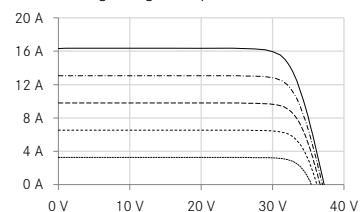
4 Location and dimensions of holes on request.

Back - / Frontview ^{3, 4}

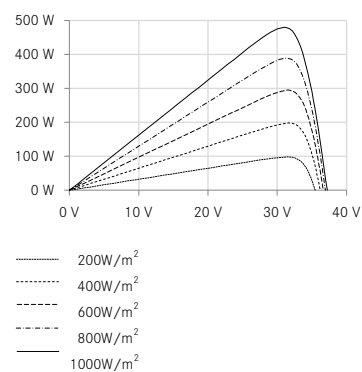


Electrical characteristics

UI-diagram e.g. 480 Wp



UP-diagram e.g. 480 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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