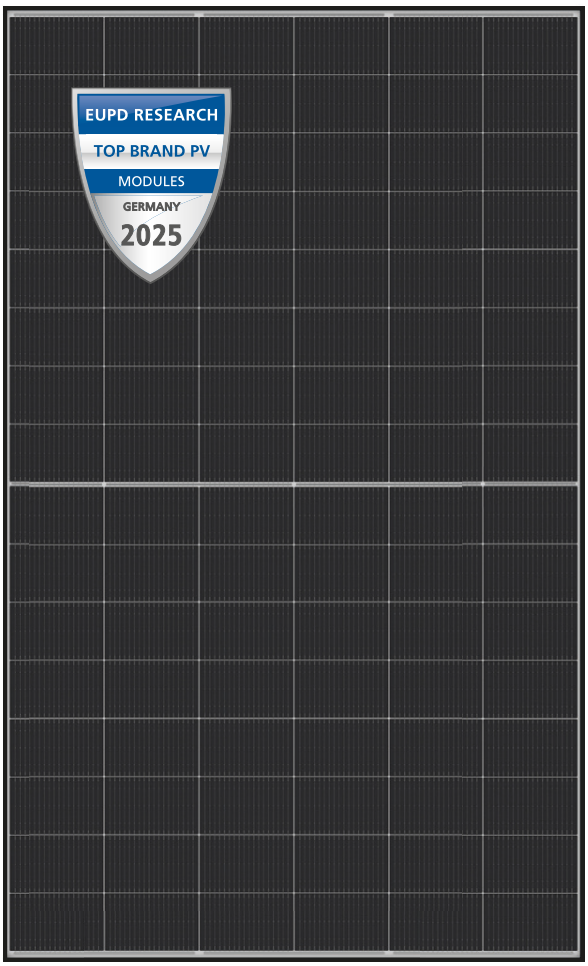
PRO

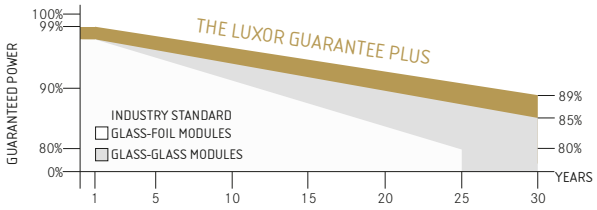
LUXOR
solar module manufacturer



+ 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

30 YEARS
product guarantee[1]

30 YEARS
linear performance guarantee[1]



ECO LINE PRO 460-480W
TOPCON BLACK WHITE

GLASS-GLASS, 1762MM X 1134MM

Longlife tested
- Selection of components
- Back glass

Power proofed
- Performance surplus of 0 Wp to 6.49 Wp
- Higher heat dispensing

Safety provided
- PID free LID Free
- German warrantor

ECO LINE PRO 460-480W

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

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

Electrical data at STC

Rated power Pmpp [Wp]	460.00	465.00	470.00	475.00	480.00
Pmpp range to	466.49	471.49	476.49	481.49	486.49
Rated current Impp [A]	15.37	15.46	15.55	15.64	15.73
Rated voltage Vmpp [V]	29.96	30.10	30.24	30.39	30.54
Short-circuit current Isc [A]	16.25	16.34	16.44	16.53	16.63
Open-circuit voltage Uoc [V]	36.27	36.44	36.61	36.79	36.97
Efficiency at STC up to	23.35%	23.60%	23.85%	24.10%	24.35%
Efficiency at 200 W/m^2	22.80%	23.04%	23.28%	23.54%	23.79%

Electrical data at NOCT

Power at Pmpp [Wp]	346.66	350.42	354.19	357.96	361.73
Rated current Impp [A]	12.41	12.48	12.55	12.62	12.70
Rated voltage Vmpp [V]	27.93	28.08	28.22	28.36	28.48
Short-circuit current Isc [A]	13.12	13.19	13.27	13.34	13.42
Open-circuit voltage Uoc [V]	33.48	33.65	33.81	33.99	34.17

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	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]	6000 Pa / 4000 Pa

Temperature coefficient

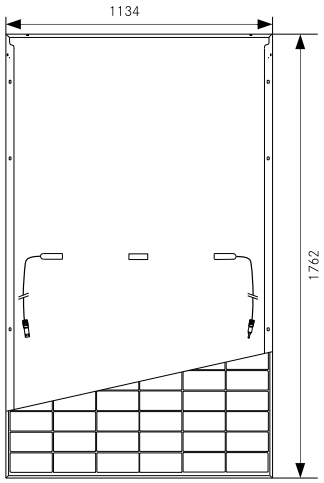
Temperature coefficient [U] | [I] | [P]	-0.25 %/°C | 0.045 %/°C | -0.29 %/°C

Specifications

Cells (matrix) | Wafer | Type	96 (6x16) | M10 | N-Type TOPCon
Module dimensions (L x W 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	Stable anodised aluminium frame
Embedding mateial	POE / EVA
Junction Box	IP68
Diodes	3 Schottky Diodes
Cable	Symmetrical cable lengths > 1.1 m, 4 mm² solar cable
Connectors	MC4 or equivalent (IP67)
Hail test (max. hailstorm)	Ø 45 mm | impact velocity 30.7 m/s ≙ 110.5 km/h

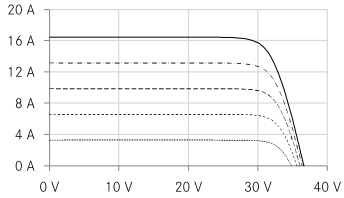
The specifications and average values can vary slightly.
Relevant is the corresponding data of the individual measurement. Specifications are subject to change without notice.
Measurement tolerance depending on equipment: rated power +/- 3%, other values +/- 10%.
All information given in this data sheet correspondes to DIN EN 50380. A potential light-induced degradation of the power after commissioning is not considered here.
Further information in the installation manuals.

Back - / Frontview[3, 4]

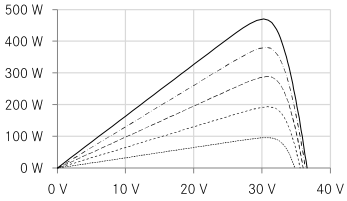


Electrical characteristics

UI-diagram e.g. 470 Wp



UP-diagram e.g. 470 Wp



200W/m^2
400W/m^2
600W/m^2
800W/m^2
1000W/m^2

1 The specific warranty conditions are given under
2 Horizontal mounted (IEC61215), for details please check mounting instruction
3 Tolerance L/W = +/- 3 mm, H +/-2 mm, the dimensions
4 Location and dimensios of holes on request

Your specialised Luxor partner

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