

- + POWERFUL N-TYPE TOPCON CELLS
- + BC: HOMOGENEOUS PURE BLACK LOOK WITHOUT VISIBLE BUSBARS FOR THE HIGHEST DESIGN STANDARDS
- + BC: MAXIMUM EFFICIENCY AND IMPROVED HOT SPOT BEHAVIOUR
- + BC: HIGHER PERFORMANCE IN PARTIAL SHADING CONDITIONS
- + DOUBLE GLASS: HIGHER MECHANICAL AND THERMAL STABILITY



linear performance guarantee¹



ECO LINE PRIME 470-490W

TOPCON PURE BLACK

GLASS-GLASS, BIFACIAL, 1800MM 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 PRIME 470-490W

TOPCON, GLASS-GLASS, BIFACIAL, BB, 182R192-108+

Module type LX - XXXM/182R192-108+ 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]	14.14	14.24	14.35	14.46	14.56
Rated voltage Vmpp [V]	33.27	33.37	33.47	33.57	33.67
Short-circuit current Isc [A]	14.73	14.83	14.95	15.06	15.17
Open-circuit voltage Uoc [V]	40.28	40.40	40.52	40.64	40.76
Efficiency at STC up to	23.34%	23.59%	23.83%	24.08%	24.32%
Efficiency at 200 W/m ²	22.80%	23.03%	23.28%	23.53%	23.76%

Electrical data at NOCT

Power at Pmpp [Wp]	355.70	359.48	363.26	367.05	370.83
Rated current Impp [A]	11.43	11.51	11.59	11.68	11.76
Rated voltage Vmpp [V]	31.12	31.23	31.34	31.43	31.53
Short-circuit current Isc [A]	11.90	11.98	12.08	12.17	12.26
Open-circuit voltage Uoc [V]	37.18	37.30	37.42	37.55	37.67

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]	470.00	475.00	480.00	485.00	490.00
Maximum Rated power Pmpp [Wp]	520.76	526.30	531.84	537.38	542.92
Rated current Impp [A]	15.67	15.78	15.90	16.02	16.13
Rated voltage Vmpp [V]	33.24	33.36	33.45	33.54	33.65
Short-circuit current Isc [A]	16.32	16.43	16.56	16.69	16.81
Open-circuit voltage Uoc [V]	40.32	40.44	40.56	40.68	40.80

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	6000 Pa / 4000 Pa

Temperature coefficient

Temperature coefficient [U] [I] [P]	-0.2 %/°C 0.05 %/°C -0.27 %/°C
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Specifications

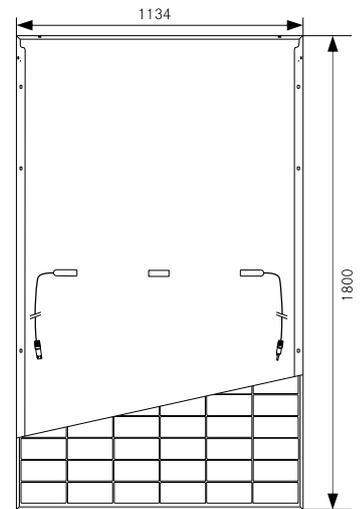
Cells (matrix) Wafer Type	108 (6x18) M10 N-Type TOPCon BC
Module dimensions (L x B x H) ³ Weight	1800 mm x 1134 mm x 30 mm 24.5 kg
Bifaciality factor ⁵	Up to 80%
Front side	2.0 mm semi tempered anti-reflection solar glass
Back side	2.0 mm semi tempered solar glass, black mesh
Frame	Stable anodised aluminium 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 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.

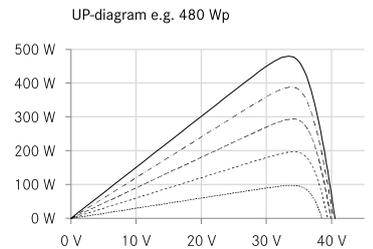
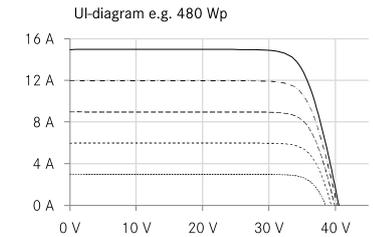
- The specific warranty conditions are given under www.luxor.solar/downloads.html
- Horizontal mounted (IEC61215), for details please check mounting instruction
- Tolerance L/W = +/- 3 mm, H +/- 2 mm, the dimensions given in the order confirmation will be decisive
- Location and dimensions of holes on request
- N-Type TOPCon BC Bifaciality factor 77 +/- 3%

Your specialised Luxor partner

Back - / Frontview^{3, 4}



Electrical characteristics



..... 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