



LUXOR

solar module manufacturer



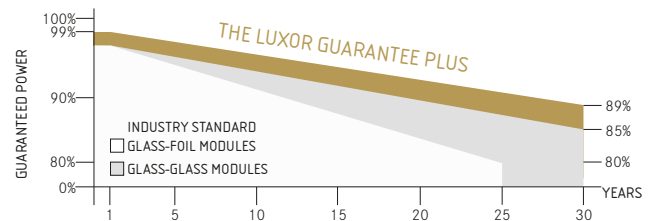
- + POWERFUL N-TYPE TOPCON CELLS
- + DOUBLE GLASS: HIGHER MECHANICAL STABILITY AND FIRE SAFETY
- + BIFACIAL: DOUBLE-SIDED POWER GENERATION FOR MORE YIELD
- + REDUCTION OF BALANCE-OF-SYSTEM-COSTS THROUGH HIGHER PERFORMANCE PER MODULE
- + APPLICATION: WHEREVER LONGEVITY AND ROBUSTNESS ARE REQUIRED



product guarantee¹



linear performance guarantee¹



ECO LINE N-TYPE TOPCON GLASS-GLASS BIF

M132 / 600 - 620W

MONOCRYSTALLINE N-TYPE MODULE FAMILY, WHITE MESH



Longlife tested



Power proofed



Safety provided



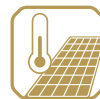
Selection of components



Back glass



Performance surplus of 0 Wp to 6.49 Wp



Higher heat dispensing



PID free
LID Free



German warrantor

ECO LINE N-TYPE TOPCON GLASS-GLASS BIF

M132 / 600 - 620 W, WHITE MESH

Module type LX - XXX M/182R-132+ GG | XXX = Rated power P_{mpp}

Electrical data at STC

	600.00	605.00	610.00	615.00	620.00
Rated power P _{mpp} [Wp]	600.00	605.00	610.00	615.00	620.00
P _{mpp} range to	606.49	611.49	616.49	621.49	626.49
Rated current I _{mpp} [A]	15.21	15.27	15.32	15.37	15.42
Rated voltage V _{mpp} [V]	39.46	39.65	39.84	40.03	40.22
Short-circuit current I _{sc} [A]	16.08	16.14	16.19	16.25	16.30
Open-circuit voltage U _{oc} [V]	47.77	48.00	48.23	48.46	48.69
Efficiency at STC up to	22.45%	22.64%	22.82%	23.01%	23.19%
Efficiency at 200 W/m ²	21.98%	22.18%	22.36%	22.54%	22.72%

Electrical data at NOCT

	452.16	455.93	459.70	463.46	467.23
Power at P _{mpp} [Wp]	452.16	455.93	459.70	463.46	467.23
Rated current I _{mpp} [A]	12.28	12.33	12.37	12.41	12.45
Rated voltage V _{mpp} [V]	36.82	36.98	37.16	37.35	37.53
Short-circuit current I _{sc} [A]	12.98	13.03	13.07	13.12	13.16
Open-circuit voltage U _{oc} [V]	44.09	44.32	44.55	44.77	45.00

Specification as per STC (Standard test conditions): irradiance 1000W/m² | module temperature 25°C | Air Mass = 1.5
 NOCT (nominal operating cell temperature): irradiance 800W/m² | wind speed 1 m/sec | ambient temperature 20°C | cell operating temperature 45 +/- 2°C | Air Mass = 1.5

Bifacial Gain* (e.g. 610 Wp)

	5%	10%	15%	20%	25%
Backside power gain [Wp]	5%	10%	15%	20%	25%
Rated power P _{mpp} [Wp]	640.50	671.00	701.50	732.00	762.50
Rated current I _{mpp} [A]	16.08	16.84	17.61	18.37	19.13
Rated voltage V _{mpp} [V]	39.84	39.84	39.84	39.85	39.85
Short-circuit current I _{sc} [A]	17.00	17.81	18.62	19.43	20.24
Open-circuit voltage U _{oc} [V]	48.23	48.23	48.23	48.24	48.24

*depending on the reflection of the underlying surface

Limiting values

Max. system voltage max. return current	1000 V or 1500 V 30 A
Safety class Fire safety class	II C (according to IEC 61730)
Operating Temperature	-40 up to 85°C
Max. tested pressure load-/tensile 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 (6 x 22) M10 N-Type TOPCon
Bifaciality factor ⁵	Up to 80 %
Module dimensions (L x W x H) ³ Weight	2382 mm x 1134 mm x 30 mm 33.5 kg
Front-side glass	2 mm highly transparent, anti-reflection solar glass
Back-side	2 mm highly transparent solar glass, white mesh
Frame	Stable, anodised aluminium frame
Embedding material	POE / EVA
Junction Box Diodes	At least IP67 3 Schottky Diodes
Cable	Symmetrical cable lengths > 1.4 m, 4 mm ² solar cable
Connectors	MC4 or equivalent with IP67
Hail test (max. hailstorm)	Ø 45 mm impact velocity 23 m/s ± 83 km/h

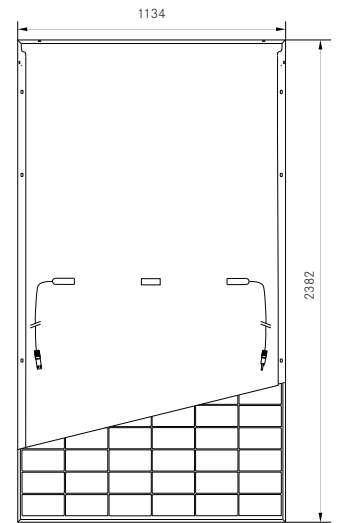
The specifications and average values can vary slightly. Relevant is the corresponding data of the individual measurement. Specifications are subject to change without notice. Measurement tolerance depending on equipment: rated power +/- 3%, other values +/- 10%. All information given in this data sheet 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.

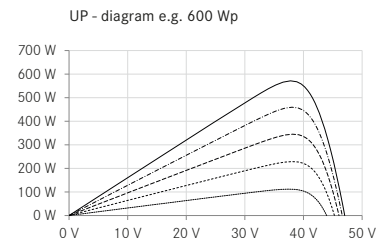
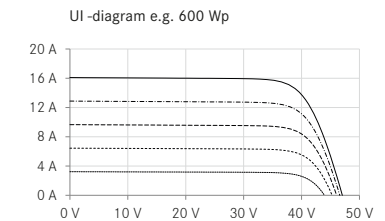
- The specific warranty conditions are given under www.luxor.solar/downloads.html
- Horizontal mounted, for details please check mounting instruction
- Tolerance L/W = +/- 3 mm, H +/- 2 mm, the dimensions given in the order confirmation will be decisive
- Location and dimensios of holes on request
-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

Luxor, your specialised company

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