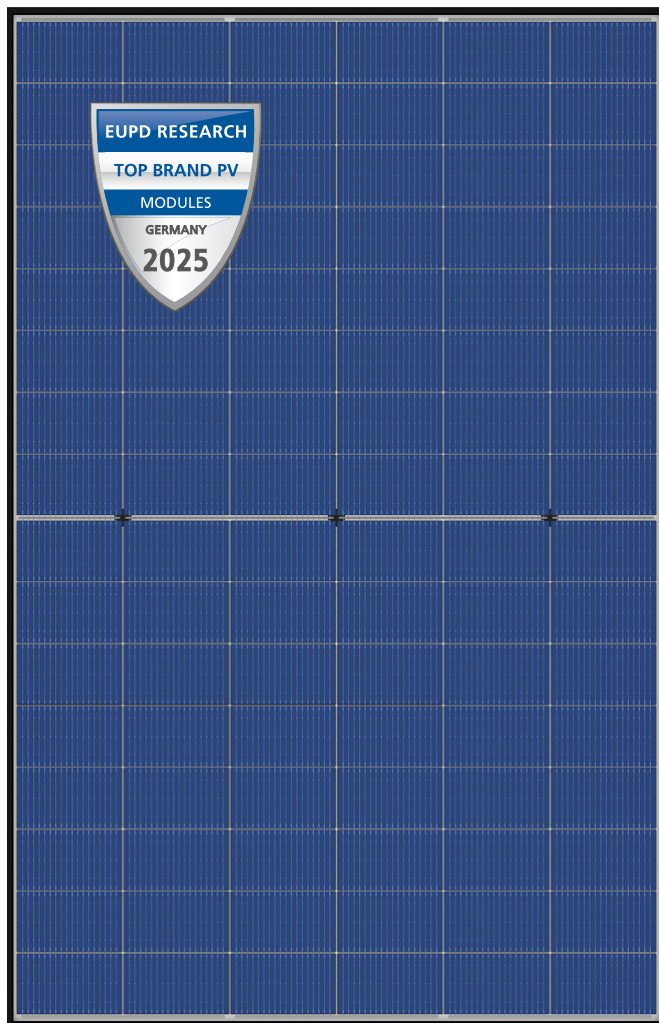




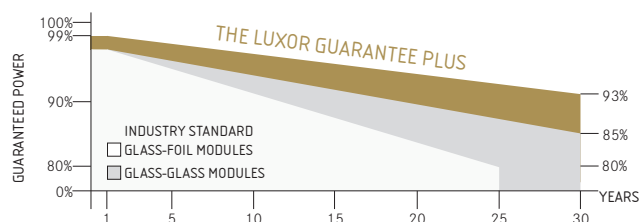
- + POWERFUL N-TYPE HETEROJUNCTION CELLS
- + GLASS-GLASS: HIGHER MECHANICAL AND THERMAL STABILITY
- + BIFACIAL: DOUBLE-SIDED POWER GENERATION FOR MORE YIELD
- + REDUCTION OF BOS-COSTS THROUGH HIGHER PERFORMANCE PER MODULE
- + SPECIAL EDGE SEALING
- + ESPECIALLY DURABLE AND ROBUST



product guarantee¹



linear performance guarantee¹



ECO LINE HJT GLASS-GLASS BIFACIAL

M96 / 430 - 450 W

MONOCRYSTALLINE MODULE FAMILY, BLACK FRAME, WHITE MESH



Longlife tested



Power proofed



Safety provided



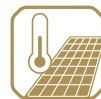
Edge-Sealing



Back glass



Performance surplus
of 0 Wp to 6.49 Wp



Higher heat
dispensing



PID free
LID free



German
warrantor

ECO LINE HJT GLASS-GLASS BIFACIAL

M96 / 430 - 450 W, BLACK FRAME, WHITE MESH

Module type

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

Electrical data at STC

Rated power Pmpp [Wp]	430.00	435.00	440.00	445.00	450.00
Pmpp range to	436.49	441.49	446.49	451.49	456.49
Rated current Impp [A]	14.17	14.27	14.38	14.49	14.59
Rated voltage Vmpp [V]	30.38	30.50	30.62	30.74	30.86
Short-circuit current Isc [A]	15.07	15.18	15.30	15.41	15.52
Open-circuit voltage Uoc [V]	37.28	37.42	37.57	37.72	37.87
Efficiency at STC up to	21.85%	22.10%	22.35%	22.60%	22.85%
Efficiency at 200 W/m ²	21.33%	21.56%	21.82%	22.07%	22.31%

Electrical data at NOCT

Power at Pmpp [Wp]	327.49	331.30	335.10	338.91	342.72
Rated current Impp [A]	11.43	11.51	11.60	11.68	11.77
Rated voltage Vmpp [V]	28.65	28.78	28.89	29.02	29.12
Short-circuit current Isc [A]	12.15	12.24	12.34	12.43	12.52
Open-circuit voltage Uoc [V]	34.41	34.55	34.70	34.85	35.00

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

Bifacial Gain* (e.g. 440 Wp)

Backside power gain [Wp]	5%	10%	15%	20%	25%
Rated power Pmpp [Wp]	462.00	484.00	506.00	528.00	550.00
Rated current Impp [A]	15.09	15.81	16.53	17.24	17.96
Rated voltage Vmpp [V]	30.62	30.62	30.62	30.63	30.63
Short-circuit current Isc [A]	16.07	16.83	17.60	18.36	19.13
Open-circuit voltage Uoc [V]	37.57	37.57	37.57	37.58	37.58

*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 (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]	-0.26 %/°C 0.04 %/°C -0.24 %/°C
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Specifications

Cells (matrix) Wafer Type	96 (6x16) M10 N-Type HJT
Module dimensions (L x W x H) ³ Weight	1762 mm x 1134 mm x 30 mm 24.5 kg
Bifaciality factor ⁵	Up to 88%
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	At least IP67 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. 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.

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

2 Horizontal mounted (IEC61215), for details please check mounting instruction

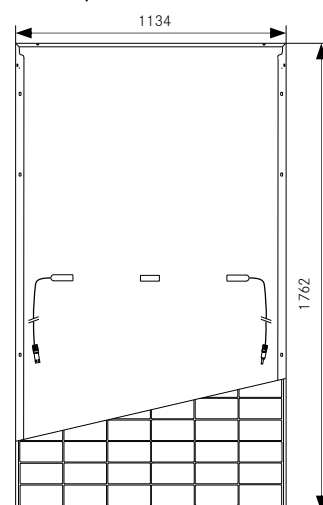
3 Tolerance L/W = +/- 3 mm, H +/- 2 mm, the dimensions given in the order confirmation will be decisive

4 Location and dimensions of holes on request

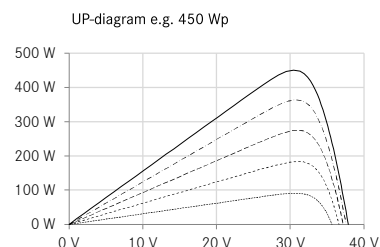
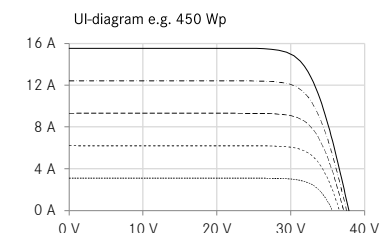
5 N-Type HJT Bifaciality factor 85 +/- 3 %

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