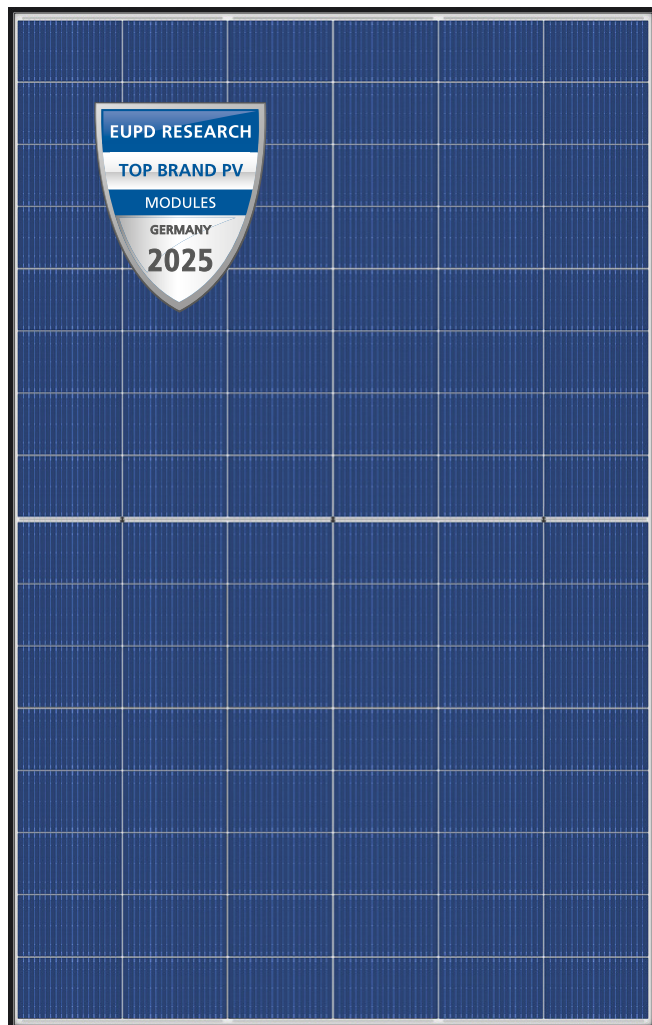




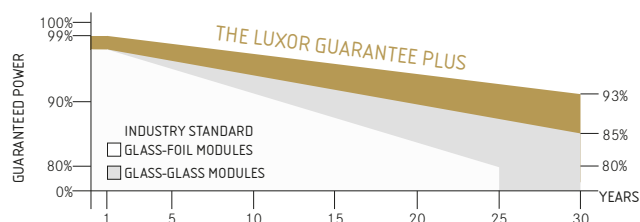
- + HIGHLY EFFICIENT N-TYPE HETEROJUNCTION CELLS
- + GLASS-GLASS: HIGHER MECHANICAL AND THERMAL STABILITY
- + BIFACIAL: DOUBLE-SIDED POWER GENERATION FOR MORE YIELD
- + REDUCTION OF BOS-COSTS THROUGH HIGHER PERFORMANCE PER MODULE
- + SPECIAL EDGE SEALING
- + ESPECIALLY DURABLE AND ROBUST



product guarantee¹



linear performance guarantee¹



ECO LINE HJT GLASS-GLASS BIFACIAL

M96 / 455 - 475W

MONOCRYSTALLINE MODULE FAMILY, BLACK FRAME, WHITE MESH



Longlife tested



Power proofed



Safety provided



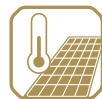
Selection of components



Back glass



Performance surplus of 0 Wp to 6.49 Wp



Higher heat dispensing



PID free
LID Free



German warrantor

ECO LINE HJT GLASS-GLASS BIFACIAL

M96 / 455 - 475 W, BLACK FRAME, WHITE MESH

Module type

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

Electrical data at STC

Rated power Pmpp [Wp]	455.00	460.00	465.00	470.00	475.00
Pmpp range to	461.49	466.49	471.49	476.49	481.49
Rated current Impp [A]	14.70	14.80	14.91	15.01	15.10
Rated voltage Vmpp [V]	30.98	31.10	31.22	31.34	31.47
Short-circuit current Isc [A]	15.64	15.74	15.86	15.97	16.06
Open-circuit voltage Uoc [V]	38.01	38.16	38.31	38.45	38.61
Efficiency at STC up to	23.10%	23.35%	23.60%	23.85%	24.10%
Efficiency at 200 W/m ²	22.56%	22.81%	23.06%	23.31%	23.54%

Electrical data at NOCT

Power at Pmpp [Wp]	346.53	350.34	354.14	357.95	361.76
Rated current Impp [A]	11.85	11.93	12.02	12.10	12.18
Rated voltage Vmpp [V]	29.24	29.37	29.46	29.58	29.70
Short-circuit current Isc [A]	12.61	12.69	12.79	12.88	12.95
Open-circuit voltage Uoc [V]	35.08	35.23	35.38	35.52	35.68

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. 465 Wp)

Backside power gain [Wp]	5%	10%	15%	20%	25%
Rated power Pmpp [Wp]	488.25	511.50	534.75	558.00	581.25
Rated current Impp [A]	15.64	16.38	17.13	17.87	18.61
Rated voltage Vmpp [V]	31.22	31.22	31.22	31.23	31.23
Short-circuit current Isc [A]	16.65	17.45	18.24	19.03	19.83
Open-circuit voltage Uoc [V]	38.31	38.31	38.31	38.32	38.32

*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

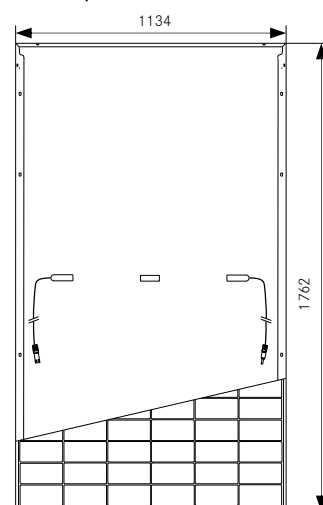
3 Tolerance L/W = +/- 3 mm, H +/- 2 mm, the dimensions given in the order confirmation will be decisive

4 Location and dimensions of holes on request

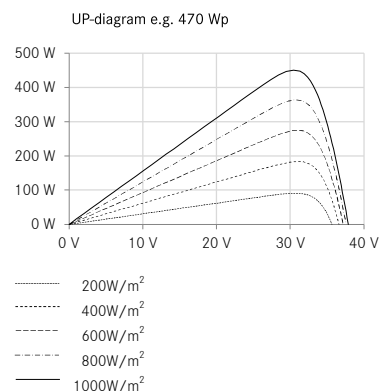
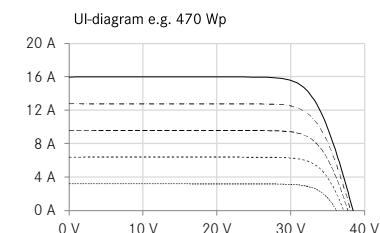
5 N-Type HJT Bifaciality factor 85 +/- 3 %

Your specialised Luxor partner

Back - / Frontview ^{3, 4}



Electrical characteristics



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