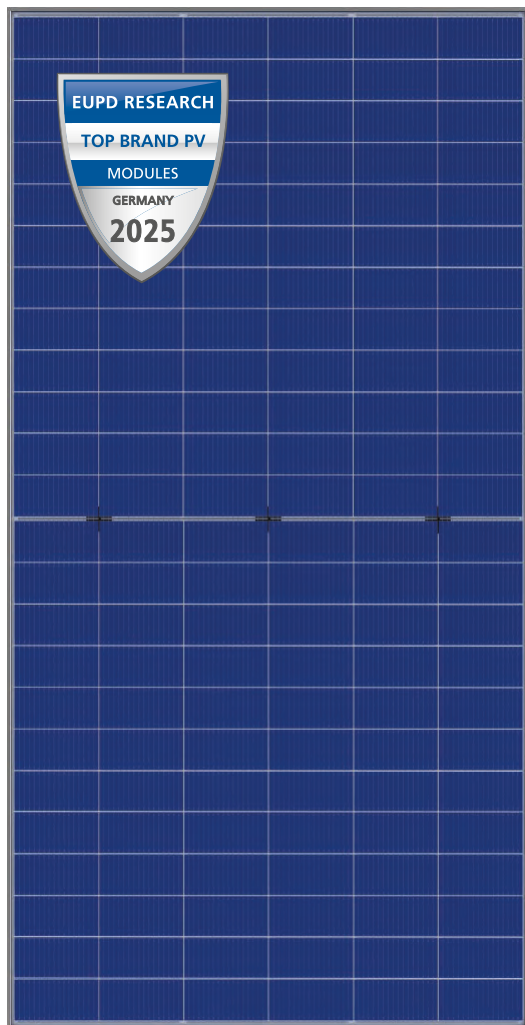




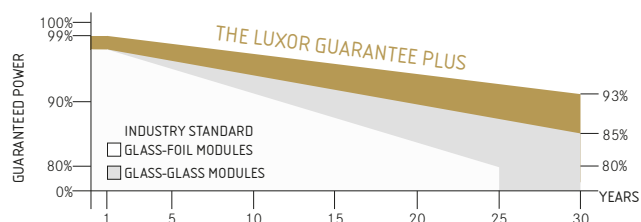
- + POWERFUL N-TYPE HETEROJUNCTION CELLS
- + GLASS-GLASS: HIGHER MECHANICAL STABILITY AND FIRE SAFETY
- + BIFACIAL: DOUBLE-SIDED POWER GENERATION FOR MORE YIELD
- + REDUCTION OF BOS-COSTS THROUGH HIGHER PERFORMANCE PER MODULE
- + ESPECIALLY ECONOMIC FOR COMMERCIAL SYSTEMS



product guarantee¹



linear performance guarantee¹



ECO LINE N-TYPE HJT GLASS-GLASS BIFACIAL M144 / 590 - 610 W

MONOCRYSTALLINE N-TYPE MODULE FAMILY, WHITE MESH



Longlife tested



Power proofed



Safety provided



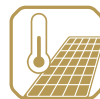
Edge-Sealing



Back glass



Performance surplus
of 0 Wp to 6.49 Wp



Higher heat
dispensing



PID free
LID Free



German
warrantor

ECO LINE N-TYPE HJT GLASS-GLASS BIFACIAL

M144 / 590 - 610 W, WHITE MESH

Module type

LX - XXX M/182-144+ GG | XXX = Rated power Pmpp

Electrical data at STC

Rated power Pmpp [Wp]	590.00	595.00	600.00	605.00	610.00
Pmpp range to	596.49	601.49	606.49	611.49	616.49
Rated current Impp [A]	13.03	13.09	13.15	13.21	13.26
Rated voltage Vmpp [V]	45.29	45.47	45.65	45.83	46.01
Short-circuit current Isc [A]	13.86	13.93	13.99	14.05	14.11
Open-circuit voltage Uoc [V]	55.57	55.79	56.01	56.23	56.45
Efficiency at STC up to	23.08%	23.27%	23.47%	23.66%	23.85%
Efficiency at 200 W/m ²	22.61%	22.80%	23.00%	23.19%	23.37%

Electrical data at NOCT

Power at Pmpp [Wp]	449.34	453.15	456.96	460.77	464.58
Rated current Impp [A]	10.51	10.56	10.60	10.65	10.69
Rated voltage Vmpp [V]	42.75	42.91	43.11	43.26	43.46
Short-circuit current Isc [A]	11.18	11.23	11.28	11.33	11.38
Open-circuit voltage Uoc [V]	51.36	51.49	51.71	51.93	52.15

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. 605 Wp)

Backside power gain [Wp]	5%	10%	15%	20%	25%
Rated power Pmpp [Wp]	635.25	665.50	695.75	726.00	756.25
Rated current Impp [A]	13.86	14.52	15.18	15.84	16.50
Rated voltage Vmpp [V]	45.83	45.83	45.83	45.84	45.84
Short-circuit current Isc [A]	14.69	15.39	16.09	16.79	17.49
Open-circuit voltage Uoc [V]	56.23	56.23	56.23	56.24	56.24

*depending on the reflection of the underlying surface

Limiting values

Max. system voltage max. return current	1500 V 25 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]	-0.26 % /°C 0.04 % /°C -0.24 % /°C
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Specifications

Cells (matrix) Wafer Type	144 (6 x 24) M10 N-Type HJT
Module dimensions (L x W x H) ³ Weight	2279 mm x 1134 mm x 30 mm 32.7 kg
Bifaciality factor ⁵	Up to 88 %
Front-side glass	2 mm tempered, highly transparent, anti-reflection solar glass
Back-side	2 mm tempered, highly transparent, white mesh print
Frame	Stable anodised aluminium frame
Embedding material	EVA / POE
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.

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

2 Horizontal mounted, for details please check mounting instruction

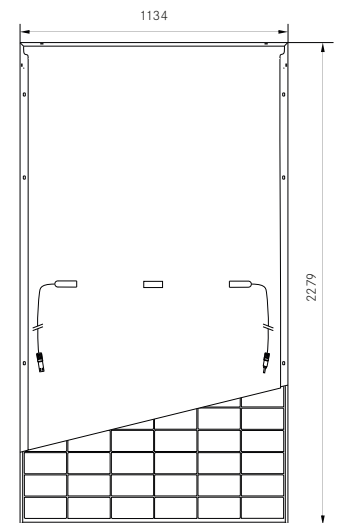
3 Tolerance L/W = +/- 3 mm. H +/- 2 mm. the dimensions given in the order confirmation will be decisive

4 Location and dimensios of holes on request

5 Bifaciality factor 85% +/- 3%

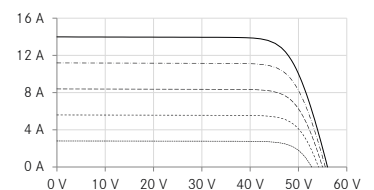
Luxor, your specialised company

Back - / Frontview^{3,4}

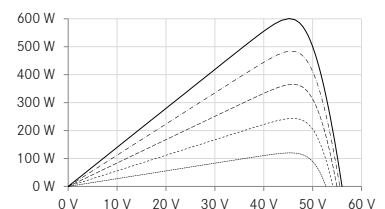


Electrical characteristics

UI - diagram e.g. 600 Wp



UP - diagram e.g. 600 Wp



..... 200 W/m²
--- 400 W/m²
— 600 W/m²
- - - 800 W/m²
—— 1000 W/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