

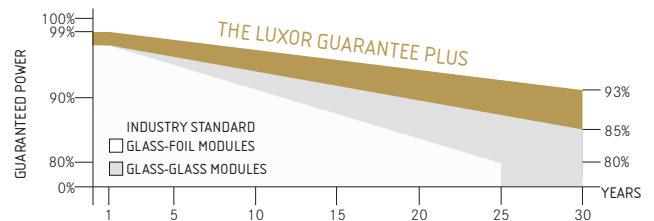
- + POWERFUL N-TYPE HETEROJUNCTION CELLS
- + GLASS-GLASS: HIGHER MECHANICAL AND THERMAL STABILITY
- + BIFACIAL: DOUBLE-SIDED POWER GENERATION FOR MORE YIELD
- + REDUCTION OF BOS-COSTS THROUGH HIGHER PERFORMANCE PER MODULE
- + SPECIAL EDGE SEALING
- + ESPECIALLY DURABLE AND ROBUST



product guarantee¹



linear performance guarantee¹



ECO LINE N-TYPE HJT GLASS-GLASS BIFACIAL M144 / 570 - 590 W

MONOCRYSTALLINE MODULE FAMILY, WHITE MESH



Longlife tested



Power proofed



Safety provided



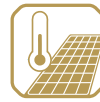
Edge-Sealing



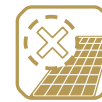
Back glass



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 / 570 - 590 W, WHITE MESH

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

Electrical data at STC

	570.00	575.00	580.00	585.00	590.00
Rated power Pmpp [Wp]	570.00	575.00	580.00	585.00	590.00
Pmpp range to	576.49	581.49	586.49	591.49	596.49
Rated current Impp [A]	12.80	12.86	12.92	12.97	13.03
Rated voltage Vmpp [V]	44.57	44.75	44.93	45.11	45.29
Short-circuit current Isc [A]	13.62	13.68	13.74	13.80	13.86
Open-circuit voltage Uoc [V]	54.69	54.91	55.13	55.35	55.57
Efficiency at STC up to	22.31%	22.50%	22.69%	22.89%	23.08%
Efficiency at 200 W/m ²	21.85%	22.05%	22.24%	22.41%	22.61%

Electrical data at NOCT

Power at Pmpp [Wp]	434.11	437.92	441.73	445.54	449.34
Rated current Impp [A]	10.32	10.37	10.42	10.46	10.51
Rated voltage Vmpp [V]	42.06	42.23	42.39	42.59	42.75
Short-circuit current Isc [A]	10.98	11.03	11.08	11.13	11.18
Open-circuit voltage Uoc [V]	50.48	50.70	50.92	51.14	51.36

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 1m/sec | ambient temperature 20°C |
 cell operating temperature 45 +/-2°C | Air Mass = 1.5

Bifacial Gain* (e.g. 580 Wp)

	5%	10%	15%	20%	25%
Backside power gain [Wp]	5%	10%	15%	20%	25%
Rated power Pmpp [Wp]	609.00	638.00	667.00	696.00	725.00
Rated current Impp [A]	13.55	14.20	14.85	15.49	16.13
Rated voltage Vmpp [V]	44.93	44.93	44.93	44.94	44.94
Short-circuit current Isc [A]	14.36	15.05	15.73	16.42	17.10
Open-circuit voltage Uoc [V]	55.13	55.13	55.13	55.14	55.14

*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, Half-Cell 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 and 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

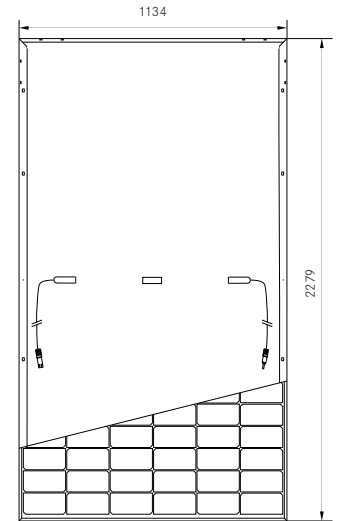
The specifications and average values can vary slightly. Relevant is the corresponding data of the individual measurement. Specifications are subject to change without notice. Measurement tolerance depending on equipment: rated power +/- 3%, other values +/- 10%. All information given in this data sheet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

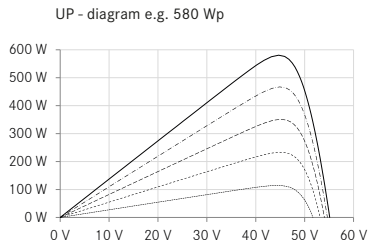
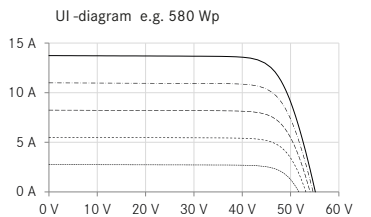
- The specific warranty conditions are given under www.luxor.solar/downloads.html
- Horizontal mounted, for details please check mounting instruction
- Tolerance L/W = +/- 3 mm, H +/- 2mm, the dimensions given in the order confirmation will be decisive
- Location and dimensions of holes on request
- Bifaciality factor 85 % +/- 3 %

Luxor, your specialised company

Back - / Frontview^{3,4}



Electrical characteristics



----- 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