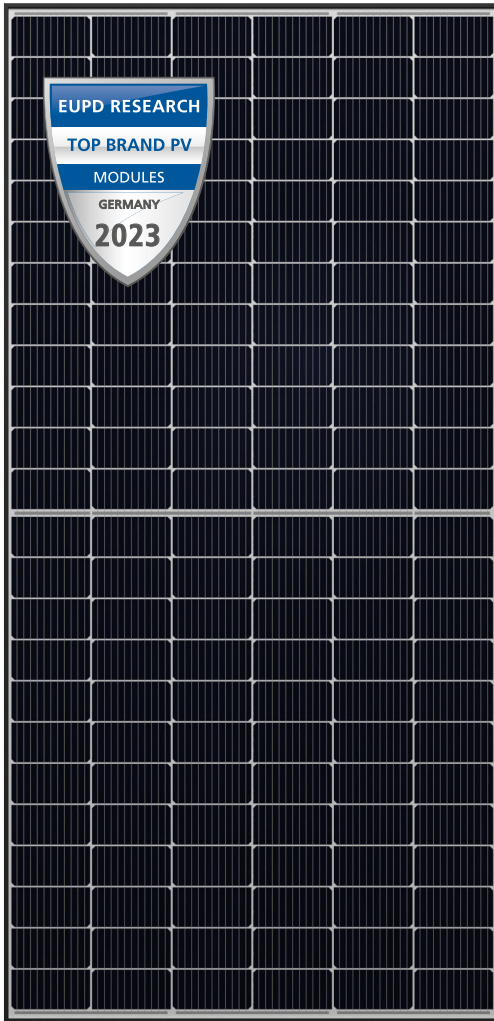




# LUXOR

solar module manufacturer since 2007



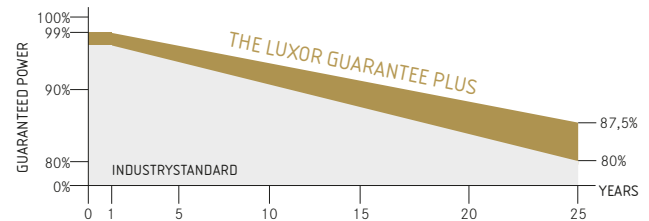
- + POWERFUL N-TYPE CELLS
- + BIFACIAL: DOUBLE-SIDED POWER GENERATION FOR MORE YIELD
- + REDUCTION OF BALANCE-OF-SYSTEM-COSTS THROUGH HIGHER PERFORMANCE PER MODULE
- + ECO: ESPECIALLY ECONOMIC AND RELIABLE
- + HIGHER YIELD: MORE REFLECTION ON CELL SURFACE



product guarantee<sup>1</sup>



linear performance guarantee<sup>1</sup>



## ECO LINE N-TYPE BIFACIAL

## M144 / 555 - 575W

MONOCRYSTALLINE N-TYPE MODULE FAMILY, WHITE MESH, BLACK FRAME



Longlife tested



Power proofed



Safety provided



Selection of components



Cross-linking degree test



Performance surplus of 0 Wp to 6.49 Wp



PID free LID Free



Special packing to avoid micro cracks in the cells



German warrantor

# ECO LINE N-TYPE BIFACIAL

## M144 / 555 - 575 W, WHITE MESH, BLACK FRAME

Module type LX - XXX M / 182-144+ BiF | XXX = Rated power P<sub>mp</sub>

### Electrical data at STC

Rated power P <sub>mp</sub> [Wp]	555.00	560.00	565.00	570.00	575.00
P <sub>mp</sub> range to	561.49	566.49	571.49	576.49	581.49
Rated current I <sub>mp</sub> [A]	13.29	13.33	13.37	13.41	13.45
Rated voltage V <sub>mp</sub> [V]	41.77	42.02	42.27	42.52	42.78
Short-circuit current I <sub>sc</sub> [A]	14.02	14.06	14.10	14.15	14.19
Open-circuit voltage U <sub>oc</sub> [V]	50.57	50.87	51.17	51.48	51.79
Efficiency at STC up to	21.74%	21.93%	22.12%	22.32%	22.51%
Efficiency at 200 W/m <sup>2</sup>	21.26%	21.45%	21.64%	21.83%	22.03%

### Electrical data at NOCT

Power at P <sub>mp</sub> [Wp]	417.36	421.12	424.88	428.64	432.40
Rated current I <sub>mp</sub> [A]	10.73	10.76	10.79	10.82	10.86
Rated voltage V <sub>mp</sub> [V]	38.90	39.14	39.38	39.62	39.82
Short-circuit current I <sub>sc</sub> [A]	11.32	11.35	11.38	11.42	11.45
Open-circuit voltage U <sub>oc</sub> [V]	46.68	46.97	47.26	47.56	47.86

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

### Bifacial Gain\* (e.g. 565 Wp)

Backside power gain [Wp]	5%	10%	15%	20%	25%
Rated power P <sub>mp</sub> [Wp]	593.25	621.50	649.75	678.00	706.25
Rated current I <sub>mp</sub> [A]	14.03	14.70	15.37	16.04	16.70
Rated voltage V <sub>mp</sub> [V]	42.27	42.27	42.27	42.28	42.28
Short-circuit current I <sub>sc</sub> [A]	14.81	15.51	16.22	16.92	17.63
Open-circuit voltage U <sub>oc</sub> [V]	51.17	51.17	51.17	51.18	51.18

\*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 <sup>2</sup>	5400 Pa / 2400 Pa

### Temperature coefficient

Temperature coefficient [U]   [I]   [P]	-0.25 % / °C   0.045 % / °C   -0.3 % / °C
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### Specifications

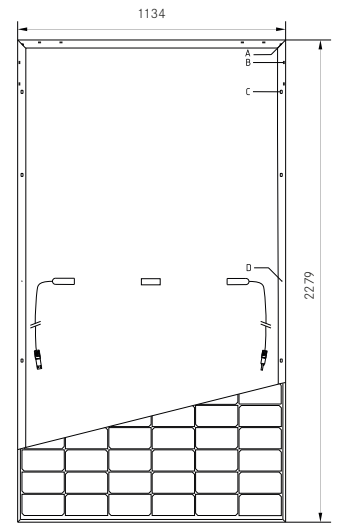
Cells (matrix)   Dimenstions   Type	144 (6 x 24)   182 mm x 91 mm   N-Type TOPCon
Module dimensions (L x W x H) <sup>3</sup>   Weight	2279 mm x 1134 mm x 35 mm   29 kg
Bifaciality factor <sup>5</sup>	Up to 80 %
Front-side glass	3.2 mm tempered, highly transparent, anti-reflection solar glass
Back-side	white mesh back sheet
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 <sup>2</sup> 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](http://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<sup>3</sup>

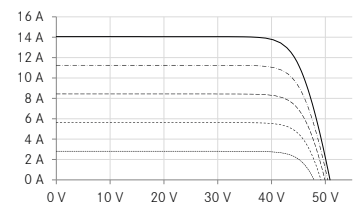


### Drilled holes<sup>4</sup>

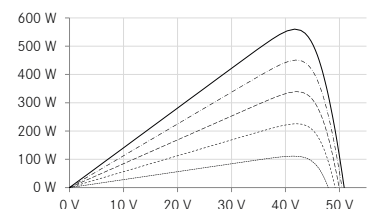
- A: 4 x drainage
- B: 16 x ventilation
- C: 8 x mounting
- D: 2 x earthing

### Electrical characteristics

UI - diagram e.g. 560 Wp



UP - diagram e.g. 560 Wp



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](http://www.luxor.solar/downloads.html)