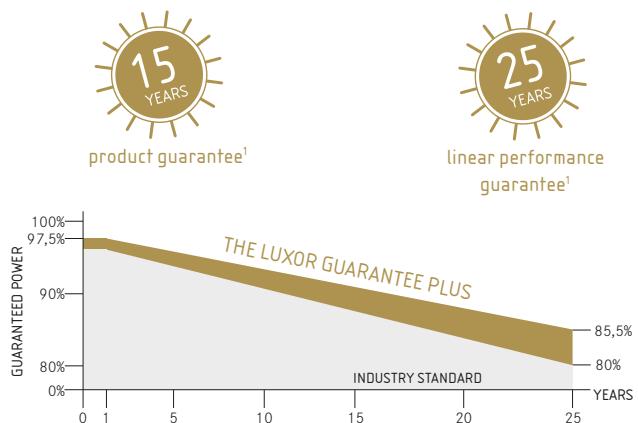


- + BIFACIAL: DOUBLE-SIDED POWER GENERATION FOR MORE YIELD
- + REDUCED LOSSES DURING PARTIAL SHADING
- + REDUCTION OF BALANCE-OF-SYSTEM-COSTS THROUGH HIGHER PERFORMANCE PER MODULE
- + ESPECIALLY ECONOMIC FOR COMMERCIAL SYSTEMS



ECO LINE HALF CELL BIFACIAL

M144 / 525-545 W

MONOCRYSTALLINE MODULE FAMILY, WHITE MESH



Longlife tested



Power proofed



Safety provided



Selection of components



Cross-linking degree test



Performance surplus
of 0 Wp to 6.49 Wp



100% PID
free cells



Special packing to
avoid micro cracks
in the cells



German
warranty

ECO LINE HALF CELL BIFACIAL

M144 / 525 - 545 W, WHITE MESH

Monocrystalline module family

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

Electrical data at STC

	525.00	530.00	535.00	540.00	545.00
Rated power Pmpp [Wp]	525.00	530.00	535.00	540.00	545.00
Pmpp range to	531.49	536.49	541.49	546.49	551.49
Rated current Impp [A]	12.92	13.00	13.07	13.15	13.22
Rated voltage Vmpp [V]	40.66	40.80	40.95	41.10	41.24
Short-circuit current Isc [A]	13.64	13.73	13.80	13.89	13.96
Open-circuit voltage Uoc [V]	48.75	48.92	49.10	49.28	49.45
Efficiency at STC up to	20.57%	20.76%	20.95%	21.15%	21.34%
Efficiency at 200 W/m ²	20.07%	20.27%	20.45%	20.65%	20.83%

Electrical data at NOCT

	389.76	393.47	397.18	400.90	404.61
Power at Pmpp [Wp]	389.76	393.47	397.18	400.90	404.61
Rated current Impp [A]	10.44	10.50	10.56	10.62	10.68
Rated voltage Vmpp [V]	37.34	37.47	37.62	37.74	37.89
Short-circuit current Isc [A]	11.01	11.08	11.14	11.21	11.28
Open-circuit voltage Uoc [V]	44.99	45.17	45.35	45.53	45.71

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. LX-530M/182-144+ BiF)

	5%	10%	15%	20%	25%
Backside power gain [Wp]	556.50	583.00	609.50	636.00	662.50
Rated power Pmpp [Wp]	556.50	583.00	609.50	636.00	662.50
Rated current Impp [A]	13.65	14.30	14.95	15.60	16.25
Rated voltage Vmpp [V]	40.80	40.80	40.80	40.81	40.81
Short-circuit current Isc [A]	14.42	15.10	15.79	16.48	17.16
Open-circuit voltage Uoc [V]	48.92	48.92	48.92	48.93	48.93

*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 to 85°C
Max. tested pressure load-/tensile ²	5400 Pa / 2400 Pa

Temperature coefficient

Temperature coefficient [U] [I] [P]	-0.285% / °C 0.049% / °C -0.360% / °C
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Specifications

Number of cells (matrix)	144 (6 x 124) 182 mm x 91 mm
Module dimensions (L x W x H) ³ Weight	2279 mm x 1134 mm x 35 mm 29 kg
Bifaciality factor	75 +/- 5%
Front-side	3.2 mm tempered, highly transparent, anti-reflection solar glass
Back-side	white mesh
Frame	stable, anodised aluminium frame
Junction Box	At least IP67
Diodes	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.

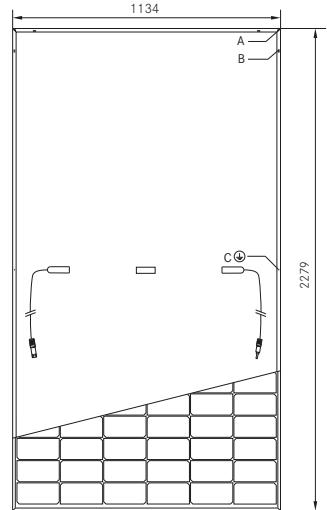
1 The specific warranty conditions are given under www.luxor.solar/downloads.html

2 Horizontal mounted; for details please check mounting instruction

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

4 Location and dimensions of holes on request

Back - /Front- view⁴

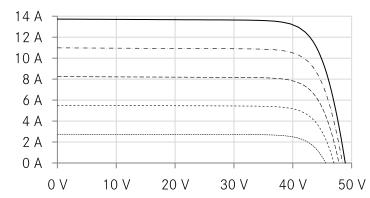


Drilled holes⁴

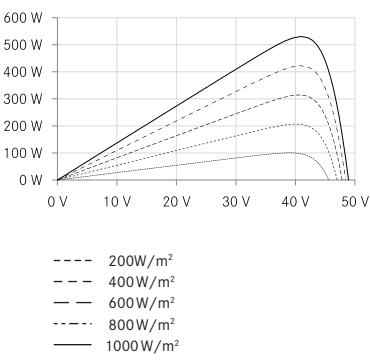
- A: 4 x drainage
- B: 8 x ventilation
- D: 2 x earthing

Electrical characteristics

UI-diagram e.g. LX-530M/182-144+



UP-diagram e.g. LX-530M/182-144+



IEC 61215
IEC 61730



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