

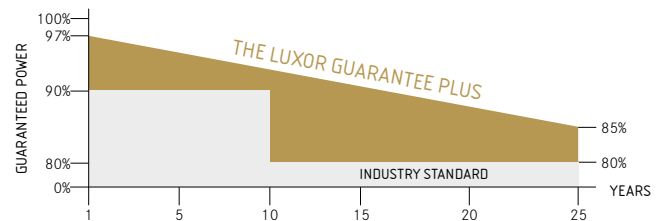
- + BIFACIAL: DOUBLE-SIDED POWER GENERATION FOR MORE YIELD
- + REDUCED LOSSES DURING PARTIAL SHADING
- + REDUCTION OF BALANCE-OF-SYSTEM COSTS THROUGH HIGHER PERFORMANCE PER MODULE
- + ESPECIALLY ECONOMIC FOR COMMERCIAL SYSTEMS



product guarantee¹



linear performance guarantee¹



ECO LINE HALF CELL BIFACIAL

M144 / 525-545 W

MONOCRYSTALLINE MODULE FAMILY, TRANSPARENT



Longlife tested



Power proofed



Safety provided



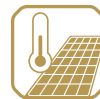
Selection of components



Cross-linking degree test



Performance surplus of 0 Wp to 6.49 Wp



Higher heat dispensing



100% PID free cells



German warrantor

ECO LINE HALF CELL BIFACIAL

M144 / 525 - 545 W, TRANSPARENT

Monocrystalline module family

Module type LX - XXXM/182-144+ | XXX = Rated power P_{mpp}

Electrical data at STC

	525.00	530.00	535.00	540.00	545.00
Rated power P _{mpp} [Wp]	525.00	530.00	535.00	540.00	545.00
P _{mpp} range to	531.49	536.49	541.49	546.49	551.49
Rated current I _{mpp} [A]	12.92	13.00	13.07	13.15	13.22
Rated voltage V _{mpp} [V]	40.66	40.80	40.95	41.10	41.24
Short-circuit current I _{sc} [A]	13.64	13.73	13.80	13.89	13.96
Open-circuit voltage U _{oc} [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 P _{mpp} [Wp]	389.76	393.47	397.18	400.90	404.61
Rated current I _{mpp} [A]	10.44	10.50	10.56	10.62	10.68
Rated voltage V _{mpp} [V]	37.34	37.47	37.62	37.74	37.89
Short-circuit current I _{sc} [A]	11.01	11.08	11.14	11.21	11.28
Open-circuit voltage U _{oc} [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]	5%	10%	15%	20%	25%
Rated power P _{mpp} [Wp]	556.50	583.00	609.50	636.00	662.50
Rated current I _{mpp} [A]	13.65	14.30	14.95	15.60	16.25
Rated voltage V _{mpp} [V]	40.80	40.80	40.80	40.80	40.80
Short-circuit current I _{sc} [A]	14.42	15.10	15.79	16.48	17.16
Open-circuit voltage U _{oc} [V]	48.92	48.92	48.92	48.92	48.92

*depending on the reflection of the underlying surface

Limiting values

Max. system voltage [V]	1500 V
Max. return current [I]	25 A
Operating Temperature	-40 to 85°C
Safety class	II
Max. tested pressure load [Pa] ²	5400
Max. tested tensile load [Pa] ²	2400

Temperature coefficient

Temperature coefficient [V] [I] [P]	-0.285% /°C 0.055% /°C -0.36% /°C
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Specifications

Number of cells (matrix)	144 (6 x 24) 182 mm x 91 mm
Module dimensions (L x W x H) ³ Weight	2279 mm x 1134 mm x 35 mm 28,6 kg
Front-side glass	3.2 mm tempered, highly transparent, anti-reflection solar glass
Back sheet	Transparent
Frame	Stable, anodised aluminium frame
Junction Box	At least IP67
Cable	Symmetrical cable lengths > 0.3 m and 0.3 m, 4 mm ² solar cable
Diodes	3 Schottky Diodes
Connectors	MC4 or equivalent (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.

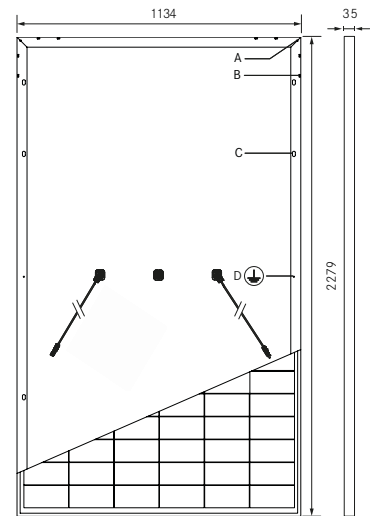
1 The specific warranty conditions are given under www.luxor-solar.com/download.htm

2 Horizontal mounted

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

4 Location and dimensios of holes on reques

Back - / Front - / Side view³

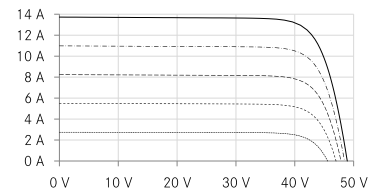


Drilled holes⁴

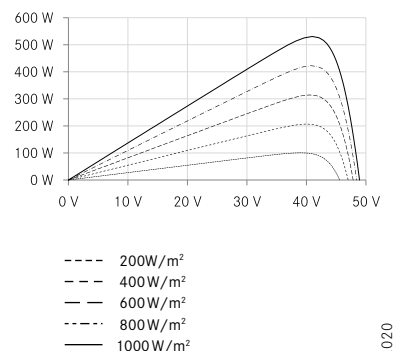
- A: 4 x drainage
- B: 8 x ventilation
- C: 12 x mounting
- D: 2 x earthing

Electrical characteristics

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



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



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.com/downloads.htm

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