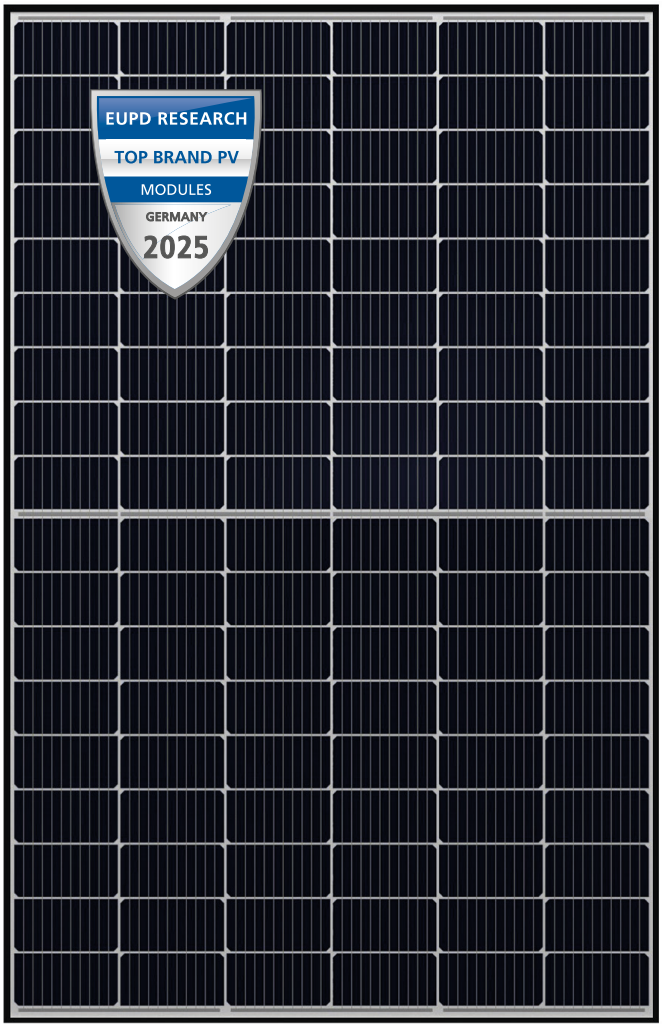
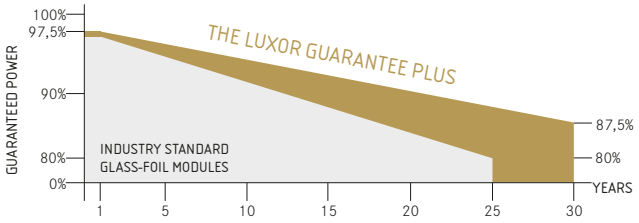
LUXOR
solar module manufacturer



+ DOUBLE GLASS: HIGHER MECHANICAL STABILITY AND FIRE SAFETY
+ BIFACIAL: DOUBLE-SIDED POWER GENERATION FOR MORE YIELD
+ REDUCTION OF BALANCE-OF-SYSTEM-COSTS THROUGH HIGHER PERFOR-MANCE PER MODULE
+ ESPECIALLY ECONOMIC FOR COMMERI-CAL SYSTEMS

30 YEARS
product guarantee[1]

30 YEARS
linear performance guarantee[1]



ECO LINE GLASS-GLASS HALF CELL BIFACIAL

M108 / 400 - 420 W

MONOCRYSTALLINE MODULE FAMILY, BLACK FRAME, WHITE MESH

Longlife tested
- Selection of components
- Back glass

Power proofed
- Performance surplus of 0 Wp to 6.49 Wp
- Higher heat dispensing

Safety provided
- 100% PID free cells
- German warrantor

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ECO LINE GLASS-GLASS HALF CELL BIFACIAL

M108 / 400 - 420 W, BLACK FRAME, WHITE MESH

Module type	LX - XXX M/182-108+ GG BiF | XXX = Rated power Pmpp

Electrical data at STC

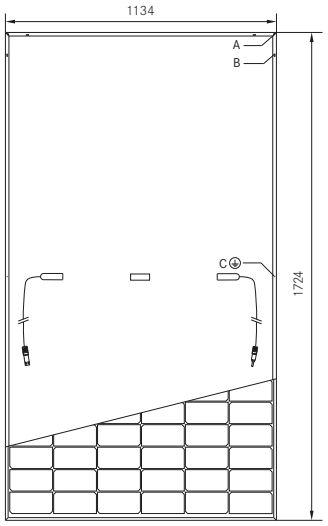
Rated power Pmpp [Wp]	400.00	405.00	410.00	415.00	420.00
Pmpp range to	406.49	411.49	416.49	421.49	426.49
Rated current Impp [A]	12.85	12.92	12.99	13.06	13.12
Rated voltage Vmpp [V]	31.15	31.36	31.58	31.81	32.03
Short-circuit current Isc [A]	13.57	13.64	13.72	13.79	13.85
Open-circuit voltage Uoc [V]	37.08	37.34	37.60	37.86	38.13
Efficiency at STC up to	20.79%	21.05%	21.30%	21.56%	21.82%
Efficiency at 200 W/m²	20.24%	20.49%	20.75%	21.01%	21.25%

Electrical data at NOCT

Power at Pmpp [Wp]	296.96	300.67	304.38	308.10	311.81
Rated current Impp [A]	10.38	10.44	10.49	10.55	10.60
Rated voltage Vmpp [V]	28.61	28.81	29.01	29.20	29.42
Short-circuit current Isc [A]	10.95	11.01	11.08	11.14	11.19
Open-circuit voltage Uoc [V]	34.22	34.47	34.73	34.98	35.24

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

Back - / Frontview[3]



Drilled holes[4] A: 4 x drainage
B: 16 x ventilation
C: 2 x earthing

Bifacial Gain* (e.g. 405 Wp)

Backside power gain [Wp]	5%	10%	15%	20%	25%
Rated power Pmpp [Wp]	430.50	451.00	471.50	492.00	512.50
Rated current Impp [A]	13.64	14.29	14.94	15.59	16.24
Rated voltage Vmpp [V]	31.58	31.58	31.58	31.59	31.59
Short-circuit current Isc [A]	14.40	15.09	15.77	16.46	17.15
Open-circuit voltage Uoc [V]	37.60	37.60	37.60	37.61	37.61

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

Temperature coefficient

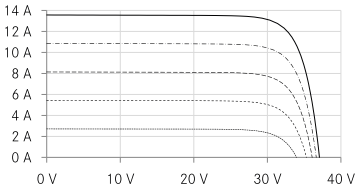
Temperature coefficient [U] | [I] | [P]	-0.285% /°C | 0.049% /°C | -0.360% /°C

Specifications

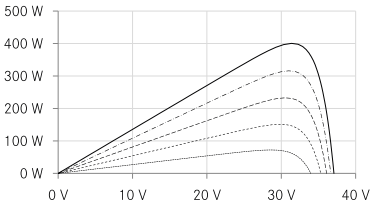
Number of cells (matrix)	108 (6 x 18) | 182 mm x 91 mm
Module dimensions (L x W x H)[3] | Weight	1724 mm x 1134 mm x 30 mm | 25 kg
Bifaciality factoy	75 +/-5%
Front-side glass	2 mm tempered, highly transparent, anti-reflection solar glass
Back-side	2 mm tempered, highly transparent, white mesh print
Frame	stable, anodised aluminium frame
Embedding material	EVA/POE
Junction Box / Diodes	At least IP67 / 3 Schottky Diodes
Cable	Symmetrical cable lengths > 1.1 m and 1.1 m, 4 mm² solar cable
Connectors	MC4 or equivalent with IP67
Hail test (max. hailstorm)	⌀ 45 mm | impact velocity 23 m/s ≙ 83 km/h

Electrical characteristics

UI-diagram e.g. LX-400M/182-108+



UP-diagram e.g. LX-400M/182-108+



200 W/m²
400 W/m²
600 W/m²
800 W/m²
1000 W/m²

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 correspondes 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

Luxor, your specialised company

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