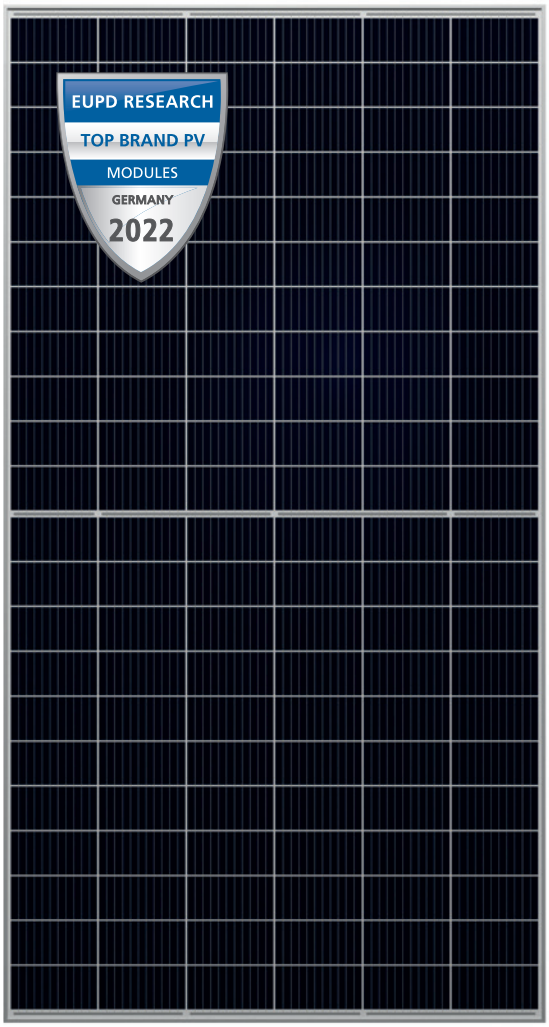
LUXOR

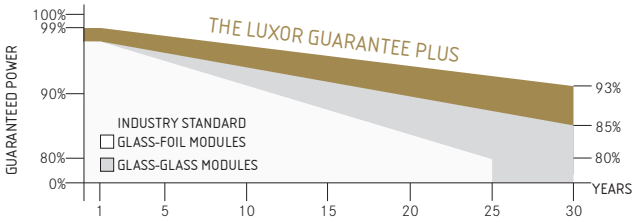
solar module manufacturer since 2007



+ POWERFUL HETEROJUNCTION CELLS
+ 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 HJT GLASS-GLASS BIFACIAL

M132 / 680 - 700 W

MONOCRYSTALLINE MODULE FAMILY, 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

- PID free LID Free
- German warrantor

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ECO LINE HJT GLASS-GLASS BIFACIAL

M132 / 680 - 700 W, WHITE MESH

Module type	LX - XXX M/210-132+ GG BiF | XXX = Rated power Pmpp

Electrical data at STC

Rated power Pmpp [Wp]	680.00	685.00	690.00	695.00	700.00
Pmpp range to	686.49	691.49	696.49	701.49	706.49
Rated current Impp [A]	16.07	16.13	16.18	16.23	16.29
Rated voltage Vmpp [V]	42.32	42.49	42.66	42.83	43.00
Short-circuit current Isc [A]	17.10	17.16	17.21	17.27	17.33
Open-circuit voltage Uoc [V]	49.79	49.99	50.19	50.39	50.59
Efficiency at STC up to	22.10%	22.26%	22.42%	22.58%	22.74%
Efficiency at 200 W/m²	21.67%	21.84%	22.00%	22.15%	22.32%

Electrical data at NOCT

Power at Pmpp [Wp]	517.89	521.70	525.50	529.31	533.12
Rated current Impp [A]	12.96	13.01	13.05	13.09	13.14
Rated voltage Vmpp [V]	39.96	40.11	40.28	40.44	40.58
Short-circuit current Isc [A]	13.79	13.84	13.88	13.93	13.97
Open-circuit voltage Uoc [V]	45.96	46.16	46.36	46.56	46.76

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. 390 Wp)

Backside power gain [Wp]	5%	10%	15%	20%	25%
Rated power Pmpp [Wp]	724.50	759.00	793.50	828.00	862.50
Rated current Impp [A]	16.98	17.79	18.60	19.40	20.21
Rated voltage Vmpp [V]	42.66	42.66	42.66	42.67	42.67
Short-circuit current Isc [A]	14.44	15.12	15.81	16.49	17.18
Open-circuit voltage Uoc [V]	50.19	50.19	50.19	50.20	50.20

*depending on the reflection of the underlying surface

Limiting values

Max. system voltage | max. return current	1500 V | 30 A
Safety class | Fire safety class	II | A (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

Specifications

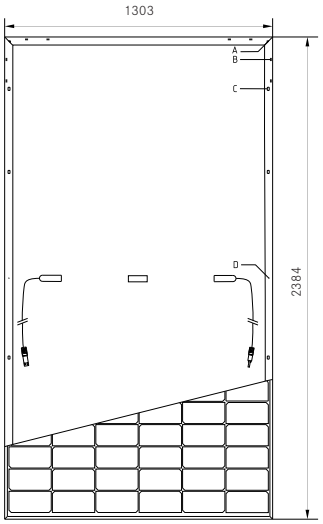
Number of cells (matrix)	132 (6x22) | 210 mm x 105 mm
Module dimensions (L x W x H)[3] | Weight	2384 mm x 1303 mm x 30 mm | 38.7 kg
Bifaciality factor[5]	Up to 83 %
Front-side glass	2 mm tempered, highly transparent, anti-reflection solar glass
Back-side	2 mm tempered, highly transparent, white mesh print
Frame	stable. anodised aluminium frame
Embedding material	EVA/POE
Junction Box	At least IP67
Cable	Symmetrical cable lengths > 1.3 m and 1.3 m, 4 mm² solar cable
Connectors | Diodes	MC4 or equivalent with IP67 | 3 Schottky Diodes
Hail test (max. hailstorm)	⌀ 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 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 +/-2mm. the dimensions given in the order confirmation will be decisive
4 Location and dimensios of holes on request
5 Bifaciality factor 80% +/- 3%

Luxor, your specialised company

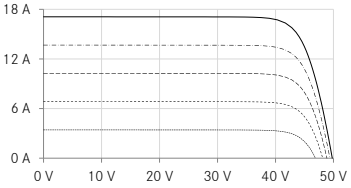
Back - / Frontview[3]



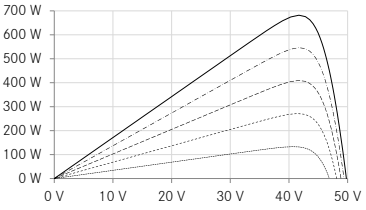
Drilled holes[4]
A: 4 x drainage
B: 16 x ventilation
C: 8 x mounting
D: 2x earthing

Electrical characteristics

UI-diagram e.g. LX-680M/210-132+



UP-diagram e.g. LX-680M/210-132+



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

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