



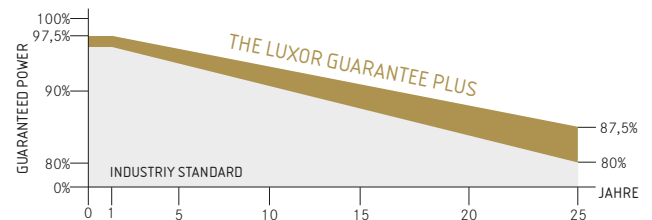
- + BIFACIAL: DOUBLE-SIDED POWER GENERATION FOR MORE YIELD
- + REDUCED LOSSES DURING PARTIAL SHADING
- + REDUCTION OF BALANCE-OF-SYSTEM-COSTS THROUGH HIGHER PERFORMANCE PER MODULE
- + ESPECIALLY ECONOMIC FOR COMMERCIAL SYSTEMS



product guarantee<sup>1</sup>



linear performance guarantee<sup>1</sup>



## ECO LINE HALF CELL BIFACIAL

### M132 / 650 - 670 W

#### MONOCRYSTALLINE MODULE FAMILY, TRANSPARENT



Longlife tested



Power proofed



Safety provided



Auswahl der Komponenten



Test des Vernetzungsgrads



Leistungsplus von 0 Wp - 6,49 Wp



100% PID freie Zellen



Spezialverpackung zur Vermeidung von Zellmikrorissen



Deutscher Garantieggeber

# ECO LINE HALF CELL BIFACIAL

## M132 / 650-670 W, TRANSPARENT

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

### Electrical data at STC

	650.00	655.00	660.00	665.00	670.00
Rated power Pmpp [Wp]	650.00	655.00	660.00	665.00	670.00
Pmpp range to	656.49	661.49	666.49	671.49	676.49
Rated current Impp [A]	17.41	17.43	17.45	17.46	17.47
Rated voltage Vmpp [V]	37.35	37.60	37.85	38.10	38.36
Short-circuit current Isc [A]	18.38	18.41	18.43	18.44	18.45
Open-circuit voltage Uoc [V]	44.46	44.76	45.06	45.36	45.67
Efficiency at STC up to	21.13%	21.29%	21.46%	21.62%	21.78%
Efficiency at 200 W/m <sup>2</sup>	20.68%	20.84%	21.01%	21.16%	21.31%

### Electrical data at NOCT

	482.56	486.27	489.98	493.70	497.41
Power at Pmpp [Wp]	482.56	486.27	489.98	493.70	497.41
Rated current Impp [A]	14.00	14.00	14.00	14.00	14.00
Rated voltage Vmpp [V]	34.47	34.73	35.00	35.26	35.53
Short-circuit current Isc [A]	14.85	14.87	14.89	14.90	14.90
Open-circuit voltage Uoc [V]	41.04	41.33	41.62	41.91	42.21

Specification as per STC (Standard test conditions): irradiance 1000 W/m<sup>2</sup> | module temperature 25°C | Air Mass = 1.5  
 NOCT (nominal operating cell temperature): irradiance 800 W/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. 660Wp)

	5%	10%	15%	20%	30%
Backside power gain [Wp]	5%	10%	15%	20%	30%
Rated power Pmpp [Wp]	693.00	726.00	759.00	792.00	825.00
Rated current Impp [A]	18.31	19.18	20.05	20.92	21.79
Rated voltage Vmpp [V]	37.85	37.85	37.85	37.86	37.86
Short-circuit current Isc [A]	15.38	16.11	16.84	17.57	18.30
Open-circuit voltage Uoc [V]	45.06	45.06	45.06	45.07	45.07

\*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 bis 85°C
Max. tested pressure load-/tensile <sup>2</sup>	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)	132 (6x22)   210 mm x 105 mm
Bifaciality factory	75 +/- 5%   approx. 8%
Module dimensions (L x W x H) <sup>3</sup>   Weight	2384 mm x 1303 mm x 35 mm   34,0 kg
Front-side	3,2 mm tempered, highly transparent, anti-reflection solar glass
Back-side	transparent foil
Frame	stable, anodised aluminium frame
Junction Box	At least IP67
Cable	cable lengths 0.3 m/0.4 m, 4 mm <sup>2</sup> solar cable
Diodes	3 Schottky Diodes
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](http://www.luxor.solar/downloads.html)

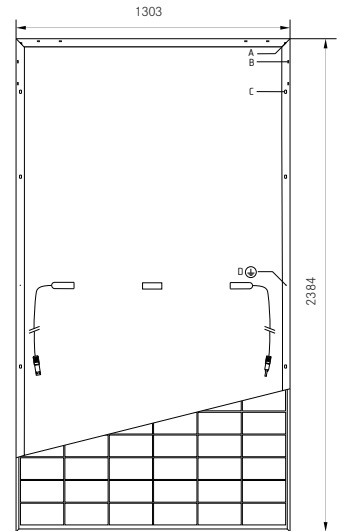
2 Horizontal mounted, for details please check mounting instruction

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

Luxor, your specialised company

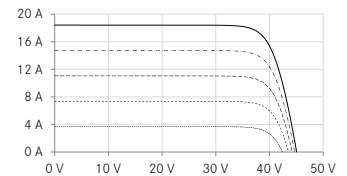
### Back - / Front - view<sup>3</sup>



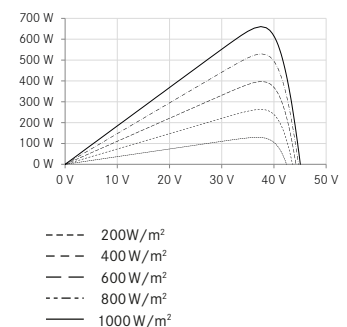
Drilled holes<sup>4</sup> A: 4 x drainage  
 B: 16 x ventilation  
 C: 8 x mounting  
 D: 2 x earthing

### Electrical characteristics

UI-diagram e.g. 660Wp



UP-diagram e.g. 660Wp



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)