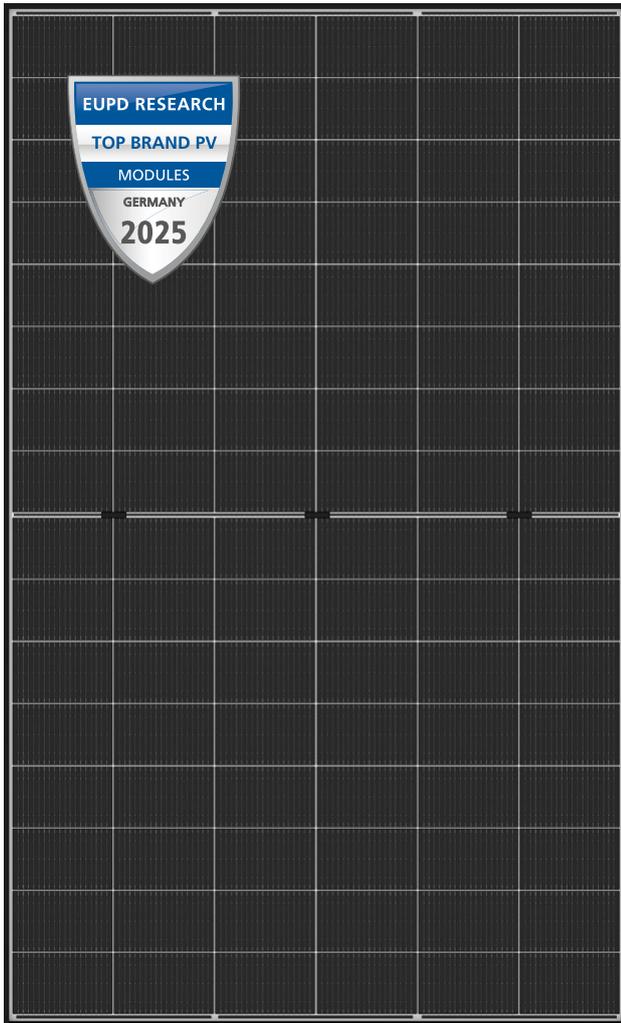




# LUXOR

solar module manufacturer



- + POWERFUL N-TYPE HJT CELLS
- + DOUBLE GLASS: HIGHER MECHANICAL AND THERMAL STABILITY
- + BIFACIAL: DOUBLE-SIDED POWER GENERATION FOR MORE YIELD
- + REDUCTION OF BALANCE-OF-SYSTEM-COSTS THROUGH HIGHER PERFORMANCE PER MODULE
- + SPECIAL EDGE SEALING: EXTREMELY DURABLE AND ROBUST



product guarantee<sup>1</sup>



linear performance guarantee<sup>1</sup>



## ECO LINE PRO 445-465W

## HJT BLACK TRANSPARENT

GLASS-GLASS, BIFACIAL, 1762MM X 1134MM



Longlife tested



Power proofed



Safety provided



Special Edge Sealing



Back glass



Performance surplus of 0 Wp to 6.49 Wp



Higher heat dispensing



PID free  
LID Free



German warrantor

# ECO LINE PRO 445-465W

## HJT, GLASS-GLASS, BIFACIAL, BT, 182R-96+

Module type LX - XXXM/182R-96+ GG | XXX = Rated power Pmpp

### Electrical data at STC

	445.00	450.00	455.00	460.00	465.00
Rated power Pmpp [Wp]	445.00	450.00	455.00	460.00	465.00
Pmpp range to	451.49	456.49	461.49	466.49	471.49
Rated current Impp [A]	14.43	14.53	14.64	14.74	14.84
Rated voltage Vmpp [V]	30.87	30.99	31.11	31.23	31.35
Short-circuit current Isc [A]	15.35	15.46	15.57	15.68	15.79
Open-circuit voltage Uoc [V]	37.88	38.02	38.17	38.32	38.47
Efficiency at STC up to	22.60%	22.85%	23.10%	23.35%	23.60%
Efficiency at 200 W/m <sup>2</sup>	22.07%	22.31%	22.57%	22.81%	23.05%

### Electrical data at NOCT

	337.49	341.28	345.07	348.86	352.66
Power at Pmpp [Wp]	337.49	341.28	345.07	348.86	352.66
Rated current Impp [A]	11.64	11.72	11.81	11.89	11.97
Rated voltage Vmpp [V]	28.99	29.12	29.22	29.34	29.46
Short-circuit current Isc [A]	12.38	12.47	12.56	12.64	12.73
Open-circuit voltage Uoc [V]	34.96	35.10	35.25	35.40	35.55

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

### Electrical data at BNPI

	445.00	450.00	455.00	460.00	465.00
Rated power Pmpp [Wp]	445.00	450.00	455.00	460.00	465.00
Maximum Rated power Pmpp [Wp]	502.07	507.71	513.35	519.00	524.64
Rated current Impp [A]	16.28	16.39	16.52	16.63	16.74
Rated voltage Vmpp [V]	30.84	30.97	31.08	31.21	31.33
Short-circuit current Isc [A]	17.32	17.44	17.57	17.69	17.82
Open-circuit voltage Uoc [V]	37.92	38.06	38.21	38.36	38.51

Specifications as per BNPI (Bifacial Nameplate Irradiance): irradiance front 1000 W/m<sup>2</sup> | rear 135 W/m<sup>2</sup> | Temperature 25°C | Air Mass 1.5

### Limiting values

Max. system voltage   max. return current	1000 V or 1500 V   30 A
Safety class   Fire safety class	II   C (IEC 61730)
Operating temperature	-40 up to 85°C
Max. tested pressure/tensile load <sup>2</sup>	6000 Pa/ 4000 Pa

### Temperature coefficient

Temperature coefficient [U]   [I]   [P]	-0.24 %/°C   0.04 %/°C   -0.26 %/°C
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### Specifications

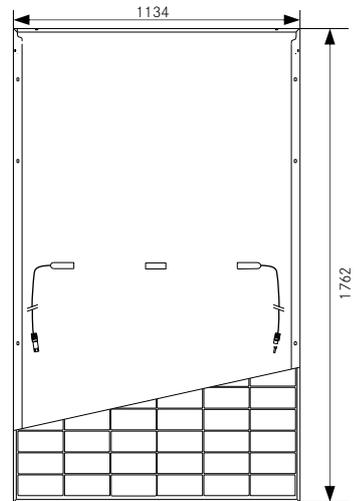
Cells (matrix)   Wafer   Type	96 (6x16)   M10   N-Type HJT
Module dimensions (L x B x H) <sup>3</sup>   Weight	1762 mm x 1134 mm x 30 mm   23.5 kg
Bifaciality factor <sup>5</sup>   Transparency	Up to 95%   approx. 4%
Front side	2.0 mm semi tempered anti-reflection solar glass
Back side	2.0 mm semi tempered solar glass
Frame	Stable anodised aluminium frame
Embedding material	POE / EVA
Junction Box   Diodes	IP68   3 Schottky Diodes
Cable	Symmetrical cable lengths > 1,1 m, 4mm solar cable
Connectors	MC4 or Equivalent (IP67)
Hail test (max. hailstorm)	Ø 45 mm   impact velocity 30,7 m/s ± 110,5 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. 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.

- The specific warranty conditions are given under [www.luxor.solar/downloads.html](http://www.luxor.solar/downloads.html)
- Horizontal mounted (IEC61215), for details please check mounting instruction
- Tolerance L/W = +/- 3 mm, H +/- 2 mm, the dimensions given in the order confirmation will be decisive
- Location and dimensions of holes on request
- N-Type HJT Bifaciality factor 92 +/- 3%

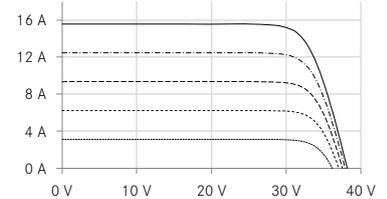
Your specialised Luxor partner

### Back - / Frontview <sup>3, 4</sup>

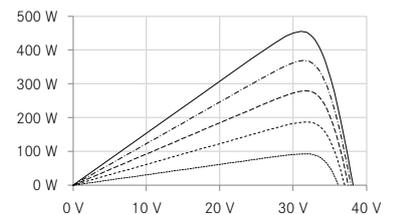


### Electrical characteristics

UI-diagram e.g. 455 Wp



UP-diagram e.g. 455 Wp



----- 200W/m<sup>2</sup>  
 ..... 400W/m<sup>2</sup>  
 - - - - 600W/m<sup>2</sup>  
 - . . . 800W/m<sup>2</sup>  
 ——— 1000W/m<sup>2</sup>



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)