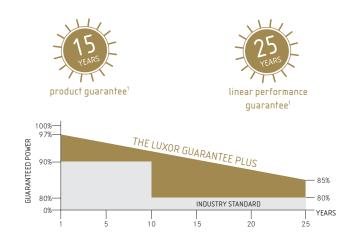




- + REDUCED LOSSES DURING PARTIAL SHADING
- + HIGHER YIELD: MORE REFELCTION ON CELL SURFACE
- + APPLICATIONS: INDUSTRIAL. COMMERCIAL AND RESIDENTIAL POWER PLANTS
- + ECO: ESPECIALLY ECONOMIC AND RELIABLE



ECO LINE HALF CELL M120 / 310 - 330 W

MONOCRYSTALLINE MODULE FAMILY, BLACK FRAME



Longlife tested



Selection of components



Cross-linking degree test



Power proofed



Performance surplus of 0 Wp to 6.49 Wp



free cells



Safety provided



Special packing to avoid micro cracks in the cells



German warrantor

ECO LINE HALF CELL M120 / 310 - 330 W

Monocrystalline module family	Module typ	Module type LX - XXXM/156-120+ XXX = Rated power Pmpp				
Electrical data at STC						
Rated power Pmpp [Wp]	310.00	315.00	320.00	325.00	330.00	
Pmpp range to	316.49	321.49	326.49	331.49	336.49	
Rated current Impp [A]	9.35	9.41	9.47	9.53	9.59	
Rated voltage Vmpp [V]	33.21	33.51	33.83	34.14	34.46	
Short-circuit current Isc [A]	9.79	9.85	9.92	9.98	10.04	
Open-circuit voltage Uoc [V]	39.48	39.85	40.22	40.60	40.97	
Efficiency at STC up to	19.05%	19.35%	19.65%	19.95%	20.25%	
Efficiency at 200 W/m²	17.94%	18.27%	18.60%	18.95%	19.29%	
Electrical data at NOCT						
Power at Pmpp [Wp]	229.13	233.06	237.05	241.10	245.20	
Rated current Impp [A]	7.48	7.53	7.59	7.64	7.70	
Rated voltage Vmpp [V]	30.65	30.96	31.25	31.54	31.84	
Short-circuit current Isc [A]	7.90	7.95	8.01	8.06	8.11	
Open-circuit voltage Uoc [V]	36.44	36.79	37.15	37.51	37.87	

Specification as per STC (Standard test conditions): irradiance $1000\,\text{W/m}^2$ | module temperature 25°C | Air Mass = $1.5\,\text{NOCT}$ (nominal operating cell temperature): irradiance $800\,\text{W/m}^2$ | wind speed $1\,\text{m/sec}$ | ambient temperature 20°C | cell operating temperature $45\,\text{+/-}2^\circ\text{C}$ | Air Mass = $1.5\,\text{m/sec}$ | Air Mass = $1.5\,\text{m/sec}$

Limiting values

1000 V or 1500 V
1000 V 01 1300 V
15 A
-40 to 85°C
II
5400
2400

-0.30% /°C | 0.055% /°C | -0.40% /°C

Temperature coefficient [V] | [I] | [P] Specifications

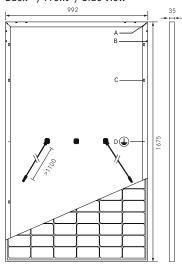
Temperature coefficient

opcomodiono			
Number of cells (matrix)	120 (6 x 20) I 156 mm x 78 mm		
Module dimensions (LxWxH)³ Weight	1675 mm x 992 mm x 35 mm 18.5 kg		
Front-side glass	3.2 mm tempered highly transparent. anti-reflection solar glass		
Frame	stable. anodised aluminium frame		
Junction Box	At least IP68		
Cable	symmetrical cable lengths > 1.1 m and 1.1 m. 4 mm² solar cable		
Diodes	3 Schottky Diodes		
Plug-in connection	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 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.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 dimensions of holes on request

Back - / Front -/ Side view3



Drilled holes4

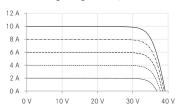
4 x drainage B: 16 x ventilation

C: 8 x mounting

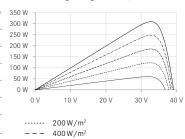
D: 2 x earthing

Electrical characteristics

UI-diagram e.g. LX-310M/156-120+



UP-diagram e.g. LX-310M/156-120+



600 W/m² 800 W/m²

1000 W/m²

Luxor. your specialised company









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/download.htm