

- + REDUCED LOSSES DURING PARTIAL SHADING
- + HIGHER YIELD: MORE REFLECTION ON CELL SURFACE
- + APPLICATIONS: ALL-ROUNDER FOR ALL SYSTEMS IN THE DIMENSIONS 1:2
- + ECO: ESPECIALLY ECONOMIC AND RELIABLE



product guarantee¹



linear performance guarantee¹



ECO LINE HALF CELL

M144 / 370 - 390 W

MONOCRYSTALLINE MODULE FAMILY



Longlife tested



Power proofed



Safety provided



Selection of components



Cross-linking degree test



Performance surplus of 0 Wp to 6.49 Wp



100% PID free cells



Special packing to avoid micro cracks in the cells



German warranty

ECO LINE HALF CELL M144 / 370 - 390 W

Monocrystalline module family

Module type LX - XXXM/156-144+ | XXX = Rated power P_{mp}

Electrical data at STC

Rated power P _{mp} [Wp]	370.00	375.00	380.00	385.00	390.00
P _{mp} range to	376.49	381.49	386.49	391.49	396.49
Rated current I _{mp} [A]	9.29	9.35	9.40	9.45	9.50
Rated voltage V _{mp} [V]	39.86	40.16	40.46	40.76	41.07
Short-circuit current I _{sc} [A]	9.81	9.87	9.93	9.98	10.03
Open-circuit voltage U _{oc} [V]	48.19	48.56	48.92	49.29	49.66
Efficiency at STC up to	18.98%	19.23%	19.48%	19.73%	19.98%
Efficiency at 200 W/m ²	18.20%	18.45%	18.69%	18.93%	19.17%

Electrical data at NOCT

Power at P _{mp} [Wp]	273.26	277.46	281.42	285.42	289.47
Rated current I _{mp} [A]	7.43	7.48	7.53	7.58	7.63
Rated voltage V _{mp} [V]	36.79	37.09	37.38	37.66	37.95
Short-circuit current I _{sc} [A]	7.92	7.97	8.01	8.06	8.10
Open-circuit voltage U _{oc} [V]	44.48	44.83	45.18	45.54	45.89

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

Limiting values

Max. system voltage [V]	1000 V or 1500 V
Max. return current [I]	25 A
Operating Temperature	-40 to 85°C
Safety class	II
Max. tested pressure load [Pa] ²	5400
Max. tested tensile load [Pa] ²	2400

Temperature coefficient

Temperature coefficient [V] [I] [P]	-0.30% /°C 0.06% /°C -0.40% /°C
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Specifications

Number of cells (matrix)	144 (6 x 24) 156 mm x 78 mm
Module dimensions (LxWxH) ³ Weight	2000 mm x 992 mm x 40 mm 24 kg
Front-side glass	3.2 mm tempered highly transparent, anti-reflection solar glass
Frame	stable, anodised aluminium frame
Junction Box	At least IP67
Cable	symmetrical cable lengths > 1.1 m and 1.1 m, 4 mm ² solar cable
Diodes	3 Schottky Diodes
Plug-in connection	MC4 or equivalent (IP67)
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 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.

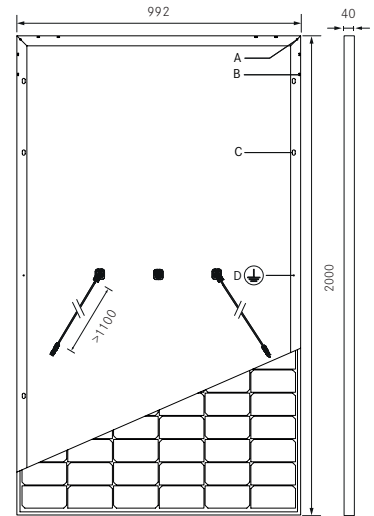
1 The specific warranty conditions are given under www.luxor-solar.com/download.htm

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

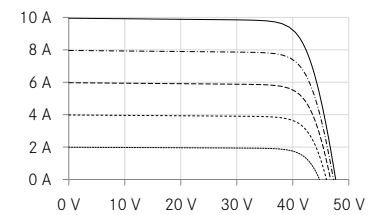


Drilled holes⁴

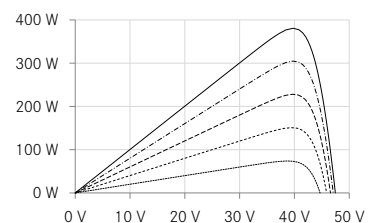
- A: 4 x drainage
- B: 16 x ventilation
- C: 8 x mounting
- D: 2 x earthing

Electrical characteristics

UI-diagram e.g. LX-380M/156-144+



UP-diagram e.g. LX-380M/156-144+



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

Luxor, your specialised company



IEC
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.com/download.htm