

ECO LINE HALF CELL GLASS-GLASS BIFACIAL

M120 / 355-375 W, TRANSPARENT, FRAMELESS

Monocrystalline module family

Module type LX - XXXM/166-120+ GG | XXX = Rated power P_{mp}

Electrical data at STC

	355.00	360.00	365.00	370.00	375.00
Rated power P _{mp} [Wp]	355.00	360.00	365.00	370.00	375.00
P _{mp} range to	361.49	366.49	371.49	376.49	381.49
Rated current I _{mp} [A]	10.54	10.62	10.69	10.77	10.84
Rated voltage V _{mp} [V]	33.72	33.94	34.17	34.40	34.63
Short-circuit current I _{sc} [A]	11.13	11.21	11.29	11.37	11.45
Open-circuit voltage U _{oc} [V]	40.14	40.41	40.68	40.95	41.23
Efficiency at STC up to	19.26%	19.53%	19.79%	20.06%	20.32%
Efficiency at 200 W/m ²	18.67%	18.94%	19.19%	19.47%	19.73%

Electrical data at NOCT

	267.81	271.58	275.36	279.13	282.90
Power at P _{mp} [Wp]	267.81	271.58	275.36	279.13	282.90
Rated current I _{mp} [A]	7.82	7.88	7.94	8.00	8.05
Rated voltage V _{mp} [V]	34.23	34.45	34.70	34.91	35.15
Short-circuit current I _{sc} [A]	8.98	9.05	9.11	9.18	9.25
Open-circuit voltage U _{oc} [V]	37.05	37.31	37.57	37.84	38.10

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. LX-360M/166-120+ GG)

	5%	10%	15%	20%	25%
Backside power gain [Wp]	5%	10%	15%	20%	25%
Rated power P _{mp} [Wp]	378.00	396.00	414.00	432.00	450.00
Rated current I _{mp} [A]	11.16	11.69	12.22	12.75	13.28
Rated voltage V _{mp} [V]	33.94	33.94	33.94	33.95	33.95
Short-circuit current I _{sc} [A]	11.78	12.34	12.90	13.46	14.02
Open-circuit voltage U _{oc} [V]	40.41	40.41	40.41	40.42	40.42

*depending on the reflection of the underlying surface

Limiting values

Max. system voltage [V]	1000 or 1500 V
Max. return current [I]	20 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]	-0.285% /°C 0.049% /°C -0.365% /°C
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Specifications

Number of cells (matrix)	120 (6 x 20) 166 mm x 79 mm
Module dimensions (L x W x H) ³ Weight	1785 mm x 1042 mm x 5 mm 21.5 kg
Front-side glass	2 mm tempered, highly transparent, anti-reflection solar glass
Back-side glass	2 mm tempered, highly transparent solar glass
Frame	Frameless
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
Connectors	MC4 or equivalent (IP67)
Hail test (max. hailstorm)	∅ 45 mm impact velocity 23 m/s ± 83 km/h

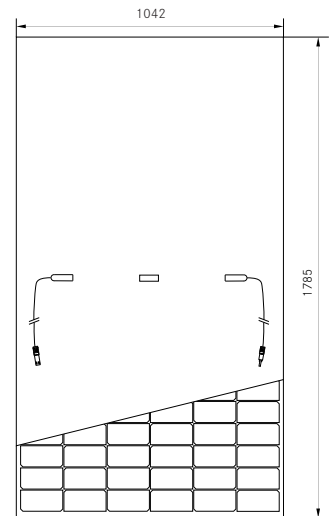
The specifications and average values can vary slightly. Relevant is the corresponding data of the individual measurement. Specifications are subject to change without notice. Measurement tolerance depending on equipment: rated power +/- 3%, other values +/- 10%. All information given in this data sheet 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

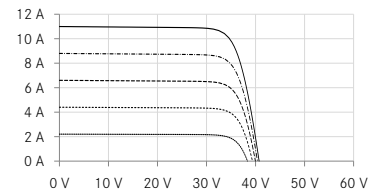
Back - /Front -/Side view³



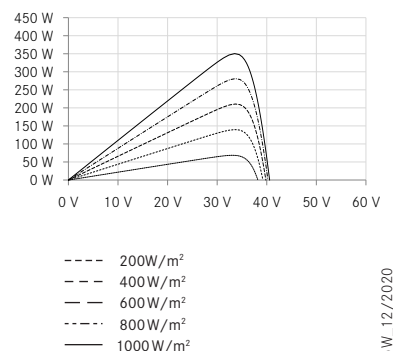
Drilled holes⁴ B: 16 x ventilation
 C: 8 x mounting
 D: 2 x earthing

Electrical characteristics

UI-diagram e.g. LX-360M/166-120+ GG



UP-diagram e.g. LX-360M/166-120+ GG



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/downloads.html

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