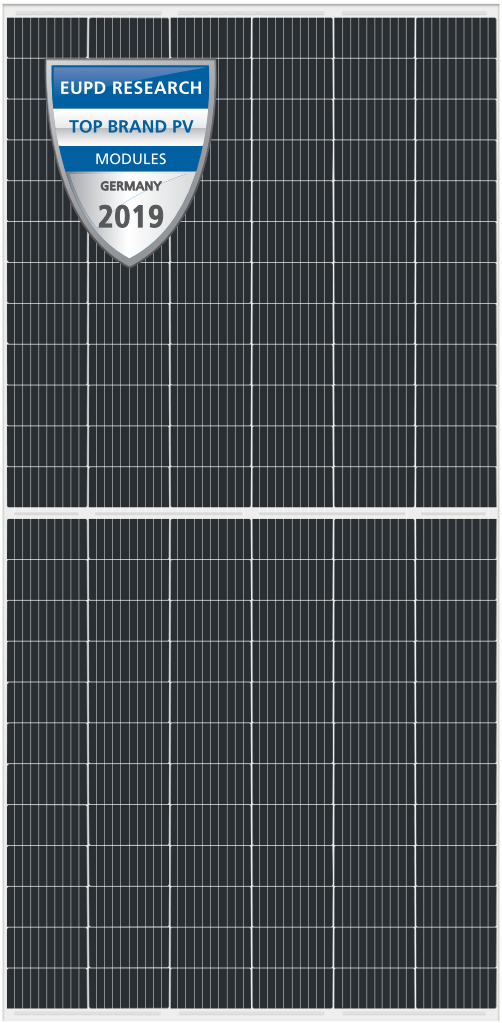
Solar Module
Manufacturer
Since 2004

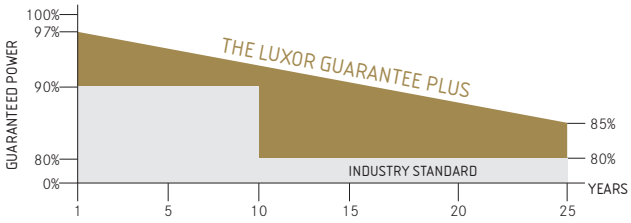
LUXOR
the sunshine people



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

15 YEARS
product guarantee[1]

25 YEARS
linear performance guarantee[1]



ECO LINE HALF CELL
M144 / 385 - 405 W

MONOCRYSTALLINE MODULE FAMILY PERC

Longlife tested

Selection of components

Cross-linking degree test

Power proofed

Performance surplus of 0 Wp to 6.49 Wp

100% PID free cells

Safety provided

Special packing to avoid micro cracks in the cells

German warrantor

Luxor Solar GmbH | Kornbergstraße 29 | 70176 Stuttgart | Germany | T+49.711.88 888-999 | info@luxor-solar.com | www.luxor-solar.com

ECO LINE HALF CELL M144 / 385 - 405 W PERC

Monocrystalline module family | Module type LX - XXXM/158-144+ | XXX = Rated power Pmpp

Electrical data at STC

Rated power Pmpp [Wp]	385.00	390.00	395.00	400.00	405.00
Pmpp range to	391.49	396.49	401.49	406.49	411.49
Rated current Impp [A]	9.50	9.55	9.60	9.65	9.70
Rated voltage Vmpp [V]	40.54	40.85	41.16	41.47	41.78
Short-circuit current Isc [A]	10.03	10.08	10.14	10.19	10.24
Open-circuit voltage Uoc [V]	49.02	49.40	49.77	50.14	50.52
Efficiency at STC up to	19.46%	19.71%	19.95%	20.20%	20.45%
Efficiency at 200 W/m²	18.90%	19.17%	19.41%	19.64%	19.89%

Electrical data at NOCT

Power at Pmpp [Wp]	284.24	287.94	292.01	296.13	300.30
Rated current Impp [A]	7.60	7.64	7.68	7.73	7.78
Rated voltage Vmpp [V]	37.42	37.71	38.02	38.31	38.60
Short-circuit current Isc [A]	8.10	8.14	8.18	8.23	8.27
Open-circuit voltage Uoc [V]	45.25	45.60	45.95	46.31	46.68

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]	- 0.282 %/°C | 0.041 %/°C | -0.387 %/°C

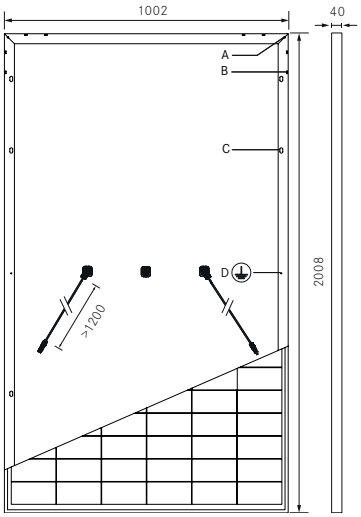
Specifications

Number of cells (matrix)	144 (6 x 24) I 158 x 79 mm
Module dimensions (LxWxH)[3] | Weight	2008 mm x 1002 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 > 1.2 m and 1.2 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

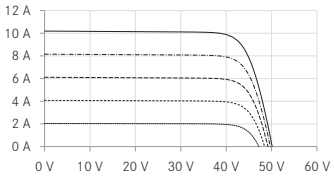
Back - / Front -/ Side view[3]



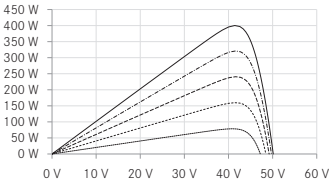
Drilled holes[4]
A: 4 x drainage
B: 16 x ventilation
C: 8 x mounting
D: 2 x earthing

Electrical characteristics

UI-diagram e.g. LX-400M/158-144+



UP-diagram e.g. LX-400M/158-144+



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

Luxor, your specialised company

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