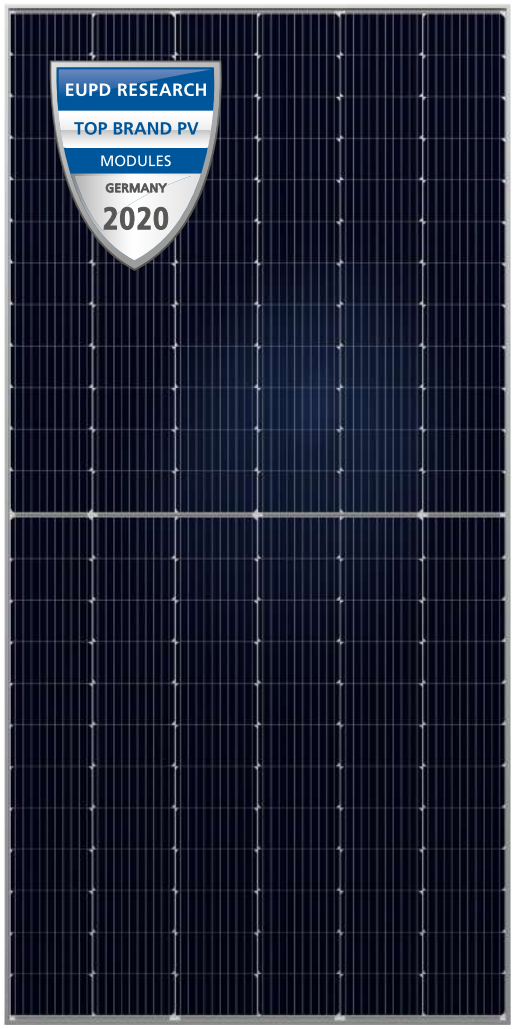
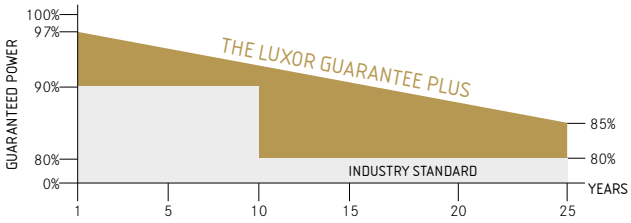
LUXOR
the sunshine people



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

15 YEARS
product guarantee[1]

25 YEARS
linear performance guarantee[1]



ECO LINE HALF CELL
M144 / 525 - 545 W

MONOCRYSTALLINE MODULE FAMILY

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

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ECO LINE HALF CELL M144 / 525 - 545 W

Monocrystalline module family | Module type LX - XXXM/182-144+ | XXX = Rated power Pmpp

Electrical data at STC

Rated power Pmpp [Wp]	525.00	530.00	535.00	540.00	545.00
Pmpp range to	531.49	536.49	541.49	546.49	551.49
Rated current Impp [A]	12.92	13.00	13.07	13.15	13.22
Rated voltage Vmpp [V]	40.66	40.80	40.95	41.10	41.24
Short-circuit current Isc [A]	13.64	13.73	13.80	13.89	13.96
Open-circuit voltage Uoc [V]	48.75	48.92	49.10	49.28	49.45
Efficiency at STC up to	20.79%	20.99%	21.18%	21.38%	21.58%
Efficiency at 200 W/m²	20.29%	20.49%	20.68%	20.88%	21.07%

Electrical data at NOCT

Power at Pmpp [Wp]	389.76	393.47	397.18	400.90	404.61
Rated current Impp [A]	10.44	10.50	10.56	10.62	10.68
Rated voltage Vmpp [V]	37.34	37.47	37.62	37.74	37.89
Short-circuit current Isc [A]	11.01	11.08	11.14	11.21	11.28
Open-circuit voltage Uoc [V]	44.99	45.17	45.35	45.53	45.71

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]	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

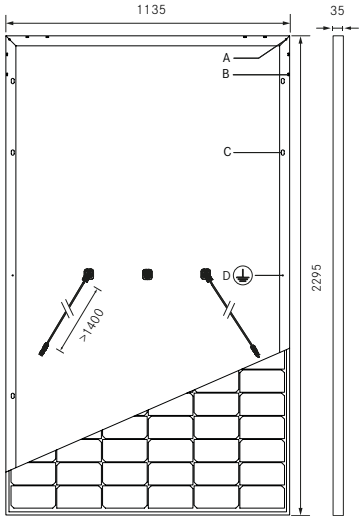
Temperature coefficient

Temperature coefficient [V] | [I] | [P]	-0.285% /°C | 0.049% /°C | -0.360% /°C

Specifications

Number of cells (matrix)	144 (6 x 24) I 182 mm x 91 mm
Module dimensions (L x W x H)[3] | Weight	2295 mm x 1135 mm x 35 mm | 28 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 > 1.4 m and 1.4 m, 4 mm² 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

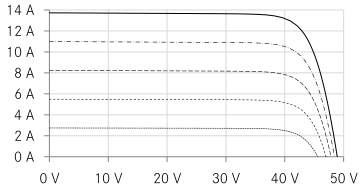
Back - /Front -/Side view[3]



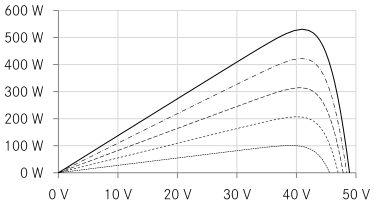
Drilled holes[4]
A: 4 x drainage
B: 16 x ventilation
C: 8 x mounting
D: 2 x earthing

Electrical characteristics

UI-diagram e.g. LX-530M/182-144+



UP-diagram e.g. LX-530M/182-144+



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

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/downloads.html
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

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/downloads.html