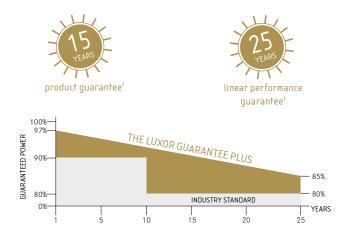


- + REDUCED LOSSES DURING PARTIAL SHADING
- + HIGHER YIELD: MORE REFELCTION ON CELL SURFACE
- + APPLICATIONS: INDUSTRIAL AND COMMERCIAL POWER PLANTS
- + ECO: ESPECIALLY ECONOMIC AND RELIABLE
- + 9 BUS BAR HALF CUT CELL PERC TECHNOLOGY



ECO LINE HALF CELL M144 / 430 - 440 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

ECO LINE HALF CELL M144 / 430 - 440 W PERC

Monocrystalline module family	Module typ	oe LX - XXXM	/166-144+ XXX = Rated power Pmpp
Electrical data at STC			
Rated power Pmpp [Wp]	430.00	435.00	440.00
Pmpp range to	436.49	441.49	446.49
Rated current Impp [A]	10.57	10.62	10.66
Rated voltage Vmpp [V]	40.69	41.00	41.31
Short-circuit current Isc [A]	11.16	11.21	11.26
Open-circuit voltage Uoc [V]	49.21	49.57	49.95
E ffi ciency at STC up to	19.62%	19.84%	20.07%
E ffi ciency at 200 W/m²	19.09%	19.32%	19.54%
Electrical data at NOCT			
Power at Pmpp [Wp]	317.43	321.76	325.84
Rated current Impp [A]	8.45	8.50	8.54
Rated voltage Vmpp [V]	37.56	37.87	38.16
Short-circuit current Isc [A]	9.01	9.05	9.09
Open-circuit voltage Uoc [V]	45.42	45.77	46.13

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]	15 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 0.055 %	7°C L -0 365 %/°C

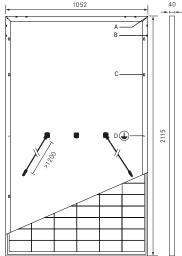
Specifications

Specifications		
Number of cells (matrix)	144 (6 x 24) I 166 x 83 mm	
Module dimensions (LxWxH)³ Weight	2115 mm x 1052 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)		

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 $\hat{}$ 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



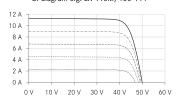
Drilled holes⁴

B: 16 x ventilation

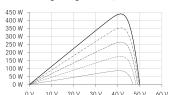
C: 8 x mounting D: 2 x earthing

Electrical characteristics

UI-diagram e.g. LX-440M/166-144+



UP-diagram e.g. LX-440M/166-144+



200 W/m² 400 W/m² 600 W/m² 800 W/m²

1000 W/m²

GIMBORN TRADING SL

Ctra. Ulldecona nº20 Nave 2-B 12500 Vinaroz (Castellón) España Tel +34 964 909 902 // Móvil +34 647 393 409 info@gimborntrading.com



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.html