For a Free Quote:

Web: EnergyPal.com/solar

Call: **1-800-990-3725**

Email: contact@energypal.com



Solar Panel Guide Specification Data Sheet

Luxor Solar GmbH
Eco Line Half Cells P120/280-300W
LX-300P

Also available on the web at EnergyPal.com/luxor-solar-gmbh-solar-panels/lx-300p













ECO LINE HALF CELLS P120 / 280-300 W

Polycrystalline module family



Longlife tested



Selection of components



Cross-linking degree test



Power proofed



Performance surplus of 0 Wp to 6.49 Wp



Impp sorting



Safety provided



Special packing to avoid micro cracks in the cells



German warrantor

The 120-cell module with half-cell architecture increase power output of the solar module by lowering resistive power and increasing total reflection. This module is the ideal solution for industrial scale equipment. From the open-field facilities, through the tracking system, to the roof-mounted installation. High-quality solar cell with highest efficiency at the best possible low light behaviour ensure the best energy output. And this at plus tolerances of OWp to 6.49Wp.

Further high-end components: An especially durable plugin connection guarantees the best power contact under all conditions, and the hollow-section frame made of anodised aluminium and compatible with every assembly system, is torsionally stiff and corrosion-free. Manufactured according to German standard s each Luxor solar module is marked by a special level of durability and reliability.

ECO LINE HALF CELLS P120 / 280-300 W

Polycrystalline module family	Module typ	oe LX - XXXP,	/156-120+ ;	XXX = Rated p	ower Pmpp
Electrical data at STC					
Rated power Pmpp [Wp]	280.00	285.00	290.00	295.00	300.00
Pmpp range to	286.49	291.49	296.49	301.49	306.49
Rated current Impp [A]	8.85	8.94	9.03	9.11	9.20
Rated voltage Vmpp [V]	31.69	31.92	32.16	32.41	32.65
Short-circuit current Isc [A]	9.37	9.46	9.56	9.64	9.74
Open-circuit voltage Uoc [V]	38.88	39.17	39.47	39.76	40.06
Efficiency at STC up to	17.24%	17.54%	17.84%	18.14%	18.45%
Efficiency at 200 W/m²	16.62%	16.96%	17.30%	17.63%	17.99%
Electrical data at NOCT					
Pmpp [Wp]	207.79	211.77	215.80	219.64	223.78
Rated current Impp [A]	7.08	7.15	7.23	7.31	7.39
Rated voltage Vmpp [V]	29.37	29.61	29.84	30.06	30.29
Short-circuit current Isc [A]	7.56	7.64	7.72	7.79	7.86
Open-circuit voltage Uoc [V]	35.89	36.17	36.45	36.74	37.02

Specification as per STC (Standard test conditions); irradiance 1000 W/m2 | module temperature 25°C | AM = 1,5 NOCT (nominal operating cell temperature): irradiance 800 W/m2 | wind speed 1 m/sec | temperature 20°C | @45 +/-2°C | AM = 1,5

992 D 🕀

Back - / Front -/ Side view3

- B: 8 x ventilation aperture 3*7 mm C: 8 x mounting hole⁴ d = 2 mm
- D: 2 x earthing d = 2 mm

Limiting values

Max. system voltage [V]	1000 V	
Max. return current [I]	25 A	
Operating Temperature	-40 to 85°C	
Snow-load zone ²	approval up to SLZ 3 (according to DIN 1055)	
Max. pressure load (static) [Pa]	5400	
Max. dynamic load [Pa]	2400	

Temperature coefficient

Temperature coefficient [V] | [I] | [P] -0.3% /°C | 0.055% /°C | -0.4% /°C

Specifications

120 (6 x 20) I 156 mm x 78 mm		
nt 1675 mm x 992 mm x 35 mm 18.5 kg		
3.2 mm, hardened solar glass with low iron content		
stable, anodised aluminium frame in a hollow-section design		
IP68 rated		
symmetrical cable lengths > 1.1 m and 1.1 m, 4 mm²		
3 Schottky Diodes		
MC4 or equivalent (IP67)		
Ø 45 mm impact velocity 23 m/s ≙ 83 km/h		

The specifications and average values can vary slightly. What is important is the corresponding data of the individual measure $ment.\ Specifications\ are\ subject\ to\ change\ without\ notice.\ Measurement\ tolerance:\ rated\ power\ +/-\ 3\ \%,\ other\ values\ +/-\ 10\ \%,$ all information in this data sheet corresponds to DIN 50380. A potential light-induced degradation of the power after commissioning is not considered here, other information can be found in the installation guidelines.

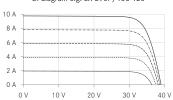
- 1 The specific warranty conditions are given under www.luxor-solar.com/download.htm
- 2 For standing installation

Luxor, your specialised company

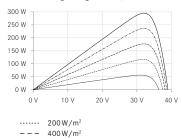
- 3 Tolerance L/W = \pm 4 mm, H = the dimensions given in the order confirmation will be decisive
- 4 Location on request

Electrical characteristics

UI-diagram e.g. LX-290P/156-120+



UP-diagram e.g. LX-290P/156-120+



600 W/m² 800 W/m² 1000 W/m²

Guidelines: 2006/95/EG-2006/95/EC.89/336/EWG-89/336/EEC.93/68/EWG-93/68/EEC









The validity of the certificates/listings for a specific country has to be examined under: www.luxor-solar.com/download.htm