

10-year product guarantee



12-year guarantee for 90 % rated power



25-year guarantee for 80 % rated power



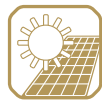
ECO LINE

72/280 – 290 W

Polycrystalline module family



Longlife tested



Power proofed



Safety provided



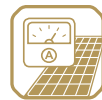
Selection of components



Cross-linking degree test



Performance surplus of 1.5 to 6.49 Wp



Imp sorting



Special packing to avoid micro cracks in the cells



German warrantor

The 72-cell module is the large-size all-rounder among the Luxor modules. Eco in this case means especially economical: The high wattage makes the module the ideal solution for industrial scale equipments. From the open-field facilities, through the tracking system, to the roof-mounted installation. High-quality solar cell with an efficiency up to 17% at the best possible low light behaviour ensure the best energy output. And this at plus tolerances of 1.5 to 6.49 Wp. Exempla-

ry in the manufacturing quality, too: An especially durable plug-in 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 standards and under the strict eyes of our engineers, each Luxor photovoltaic module is marked by a special level of durability and reliability.

ECO LINE ECO LINE 72/280 – 290W

Polycrystalline module family

Electrical data	LX-280P	LX-285P	LX-290P
Rated power P _{mpp} [Wp]	280.0	285.00	290.00
P _{mpp} range	281.50 – 286.49	286.50 – 291.49	291.50 – 296.49
Rated current I _{mpp} [A]	7.81	7.91	8.01
Rated voltage V _{mpp} [V]	36.05	36.23	36.40
Short-circuit current I _{sc} [A]	8.31	8.42	8.48
Open-circuit voltage [V]	45.06	45.20	45.23
Efficiency at STC	14.51 %	14.73 %	15.03 %
Efficiency at 200 W/m ²	13.91 %	14.17 %	14.45 %
NOCT [°C]	47 ± 2°C	47 ± 2°C	47 ± 2°C

Specification as per STC: 1000 W/m², 25°C, AM 1.5 / STC irradiance: 1000 W/m²,
Module temperature: 25°C, AM=1.5 | NOCT: 47°C

Limiting values	LX-280P / LX-285P / LX-290P
Max. system voltage [V]	1000 V
Max. return current [I]	15 A
Temperature range	-40 to 85°C
Snow-load zone ¹	approval up to SLZ 3 (according to DIN 1055)
Max. pressure load (static)	5400 Pa

Temperature coefficient	LX-280P / LX-285P / LX-290P
Temperature coefficient [V] [I] [P]	-0.32% /°C 0.05% /°C -0.45% /°C

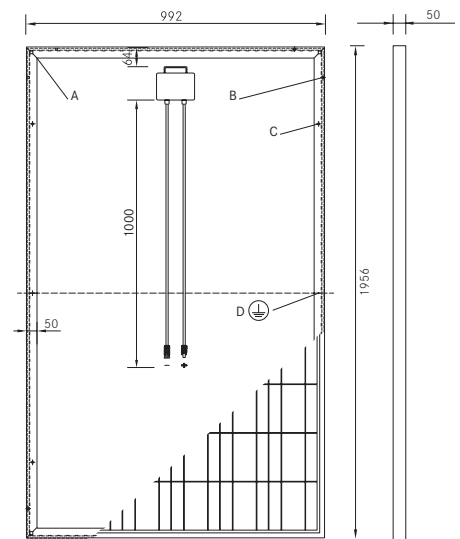
Specifications	LX-280P / LX-285P / LX-290P
Number of cells (matrix)	6 x 12, three strings in a row
Cell size	156 mm x 156 mm
Module dimensions (L x W x H) ² Weight	1,956 mm x 992 mm x 50 mm 23.2 kg
Front-side glass	3.2 mm hardened solar glass with low iron content
Frame	stable, anodised aluminium frame in a hollow-section design
Socket	plastic (PPO), IP65, ventilated and strain-relieved
Cable	4 mm ² solar cable, cable length 1.0 m
Plug-in connection	high-quality plug-in system, (IP65) MC4 or equivalent
Hail test (max. hailstorm)	∅ 45 mm impact velocity 23 m/s
General technical approval	classified according to DIN EN 13501-5 as B _{ROOF} (ti)

Packing	LX-280P / LX-285P / LX-290P
Packing unit	20 modules, 2 I _{mpp} classes 22 PU/40' container
Dimensions (L x W x H) Weight	198 cm x 114 cm x 121 cm 540 kg gross

The specifications and average values can vary slightly. Decisive is the corresponding data of the individual measurement. 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, other information to be found in the installation guidelines.

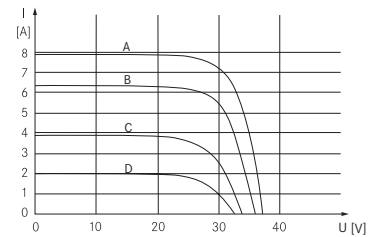
- 1 For standing installation
- 2 Tolerance L/W = +/- 3 mm, H = the dimensions given in the order confirmation will be decisive
- 3 Location on request

Back view/ Front view/ Side view²

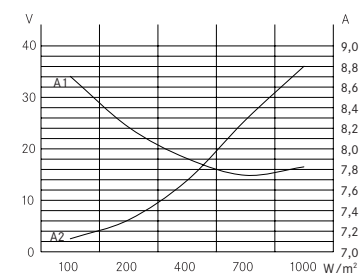


- A: 4 x drainage 10*10 mm
- B: 8 x ventilation aperture 3*7 mm
- C: 8 x mounting hole d = 7 mm³
- D: 2 x earthing d = 2 mm

Characteristics



- A: 1000 W/m² | B: 800 W/m²
- C: 500 W/m² | D: 250 W/m²



- A1: I_{mpp} | A2: V_{mpp}

Luxor, your specialised company

Guidelines:

2006/95/EG - 2006/95/EC, 89/336/EWG - 89/336/EEC, 93/68/EWG - 93/68/EEC



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