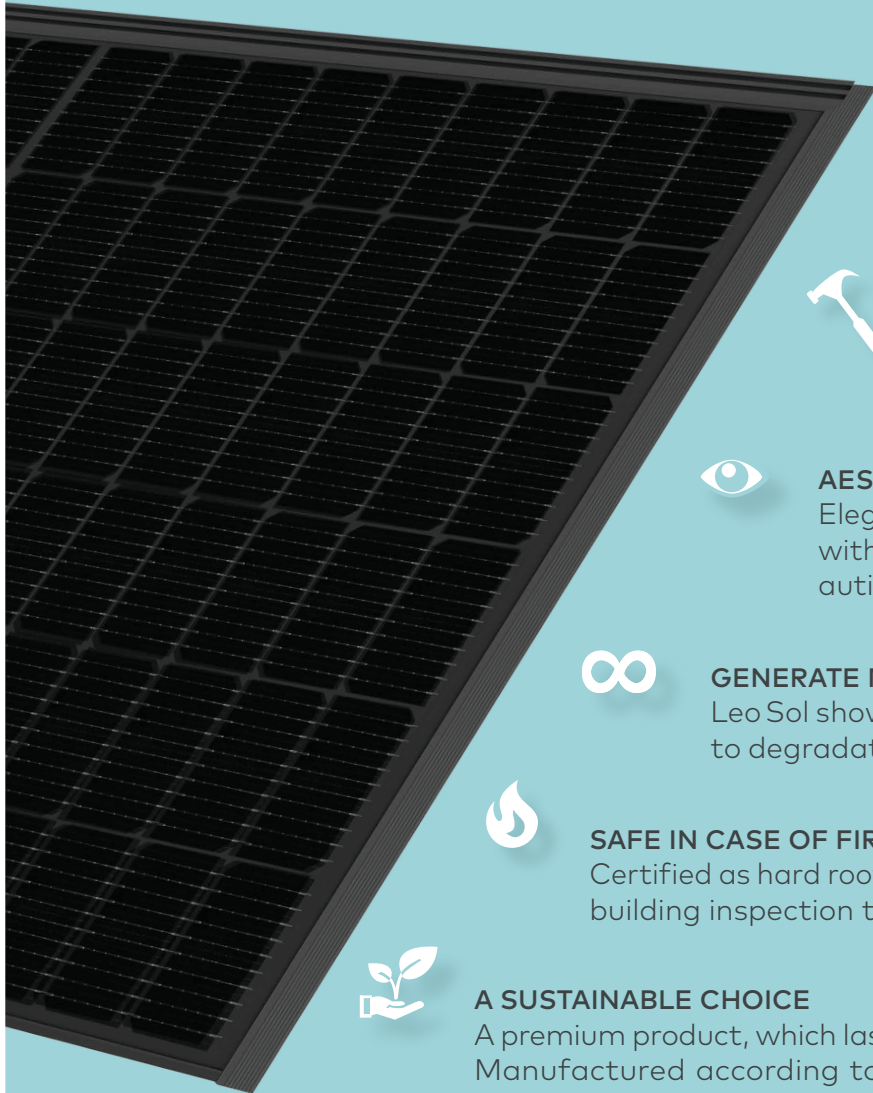


LEO Sol 385-400 W

Premium PV Panel

The durable one.
For a green planet.



BIPV IN-ROOF SOLUTION
Solar building integration at the highest level. LEO Sol fits perfectly into your roof and replaces conventional roof tiles.



VERSATILE USE
Ideal panel for new buildings or usage in roof renovations.



AESTHETIC
Elegant black finish. Closes homogeneously with the roof surface. Blind modules for beautiful and uniform appearance available.



GENERATE MORE POWER
Leo Sol shows an extremely high resistance to degradation phenomena (PID & LeTID).



SAFE IN CASE OF FIRE
Certified as hard roofing by the general building inspection test certificate.



A SUSTAINABLE CHOICE
A premium product, which lasts for decades. Manufactured according to rigid environmental standards. Produced with 100 % green energy.

MADE IN GERMANY!

Right here. In Prenzlau. In our production facility.
Here we manufacture under the aspects of quality & durability since 2001.

FULL SERENITY



Years linear
Power Guarantee



Years
Product Warranty

100% cost recovery of guarantee claims.
Under the terms and conditions of the respective guarantee certificate.

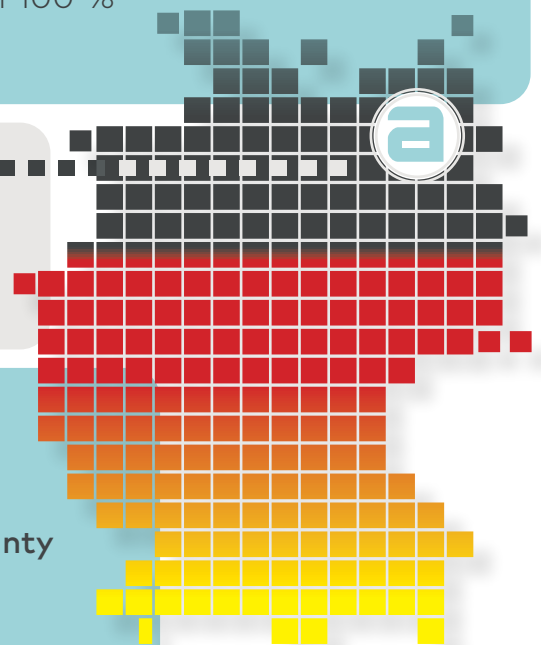
QUALITY UNDER HAND AND SEAL



Design optimized with

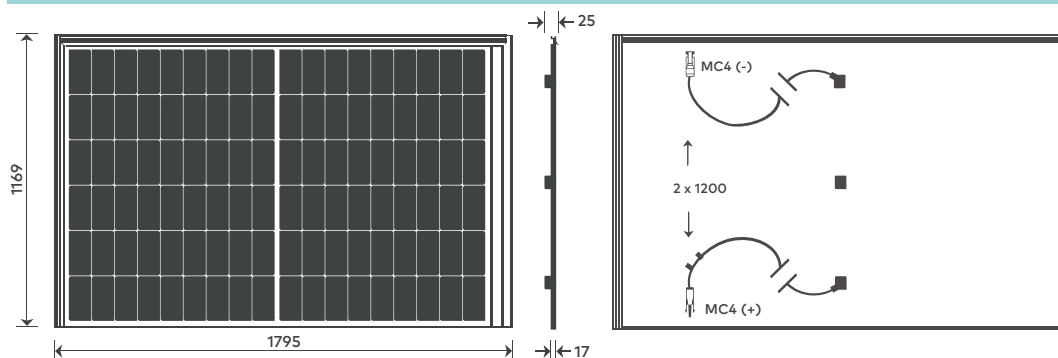
SmartCalc.Module

aleo
www.aleo-solar.com



aleo solar panel LEO Sol 385-400 W Premium

DIMENSIONS [mm]



The frames of side-by-side modules interlock on the left and right sides. For more information, please refer to the installation manual.

grid dimensions: 1137 mm x 1777 mm
Please refer to the planning help on the website www.aleo-solar.com

BASIC MODULE DATA

Length x width x height	1169 x 1795 x 17 (with junction box 25) (grid dimension 1137 x 1777)		
Weight	[kg]	22	
Number of cells	108		
Cell size	[mm]	182 x 91	
Cell material	Monocrystalline Si, PERC		
Number of Busbars	10		
Front sheet	3.2 mm Solar glass (TSG) with anti-reflective coating		
Back sheet	Polymer sheet, black		
Frame material	Al alloy, black, powder coated		

BASIC DATA JUNCTION BOX

3 parts junction box acc. to IEC 62790	[mm]	left & right: 62 x 58 x 14 middle: 49 x 55 x 14
Bypass diodes	3 (one per box)	
IP class	IP68	
Cable	[mm]	1200 (+), 1200 (-) acc. to EN 50618
Connectors	genuine MC4 acc. to EN 62852	

CLASSIFICATION

Classification range (positive classification)	[W]	0/+4.99
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LOADS

Max. module pressure load (Testload)	[Pa]	8100 ¹
Max. module pressure load (Designload) ²	[Pa]	5400 ¹
Max. module suction load (Testload)	[Pa]	2400 ¹
Max. module suction load (Designload) ²	[Pa]	1600 ¹
Max. system voltage	[V _{DC}]	1000
Reverse current load	I _R [A]	25

Mechanical load acc. to IEC/EN 61215:2021

¹ Please observe the mounting conditions in the installation manual

² Testload/Safety factor 1.5 = Designload

ELECTRICAL DATA (STC)

			S84T385	S84T390	S84T395	S84T400
Rated power	P _{MPP} [W]		385	390	395	400
Rated voltage	V _{MPP} [V]		31.21	31.40	31.60	31.79
Rated current	I _{MPP} [A]		12.34	12.42	12.50	12.58
Open-circuit voltage	V _{OC} [V]		37.05	37.17	37.29	37.41
Short-circuit current	I _{SC} [A]		12.94	13.02	13.10	13.18
Efficiency (after installation) ³	η [%]		19.1	19.3	19.6	19.8
Efficiency (before installation) ⁴	η [%]		18.3	18.6	18.8	19.1

Electrical values measured under standard test conditions (STC): 1000 W/m²; 25 °C; AM 1.5

ELECTRICAL DATA (LOW IRRADIANCE)

			S84T385	S84T390	S84T395	S84T400
Power	P _{MPP} [W]		74	75	76	77

Electrical values measured under: 200 W/m²; 25 °C; AM 1.5

Measurement tolerance of P_{MPP} under STC -3/+3 %

Accuracy of other electrical values -10/+10 %

³ Efficiency related to grid dimension / ⁴ Efficiency related to gross module area

CERTIFICATIONS

Fire Resistance Class C (IEC 61730), E (EN 13501-1), B2 (DIN 4102-1)

Protection Against Electric Shock II

General Building Supervision Test Report against flying sparks and radiant heat (hard roofing) acc. DIN CEN/TS 1187-1; B_{ROOF} (t1) acc. DIN EN 13501-5

IEC 61215:2021, IEC 61730:2016 including:

- IEC 62804 – PID Resistance

- IEC/TS 62782:2016 - Dynamic mechanical load testing

LeTID Resistance

Snail trail free (AgNP Test)

System Certifications acc. to DIN EN ISO 9001:2015, 14001:2015, 50001:2018 and DIN ISO 45001:2018

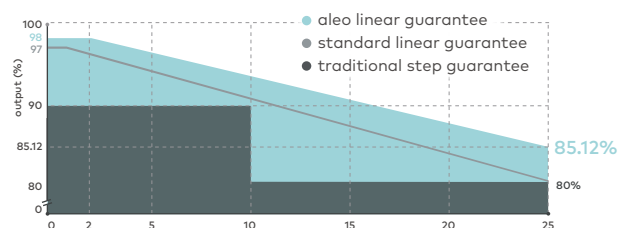
TEMPERATURE COEFFICIENTS

Temperature coefficient I _{SC}	α (I _{SC})	[%/K]	+0.03
Temperature coefficient V _{OC}	β (V _{OC})	[%/K]	-0.26
Temperature coefficient P _{MPP}	γ (P _{MPP})	[%/K]	-0.34

GUARANTEES

Product Guarantee	25 years
Power Guarantee	25 years – linear

PERFORMANCE GUARANTEE



PLEASE CONTACT YOUR AUTHORISED ALEO DEALER

ALEO SOLAR GMBH

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