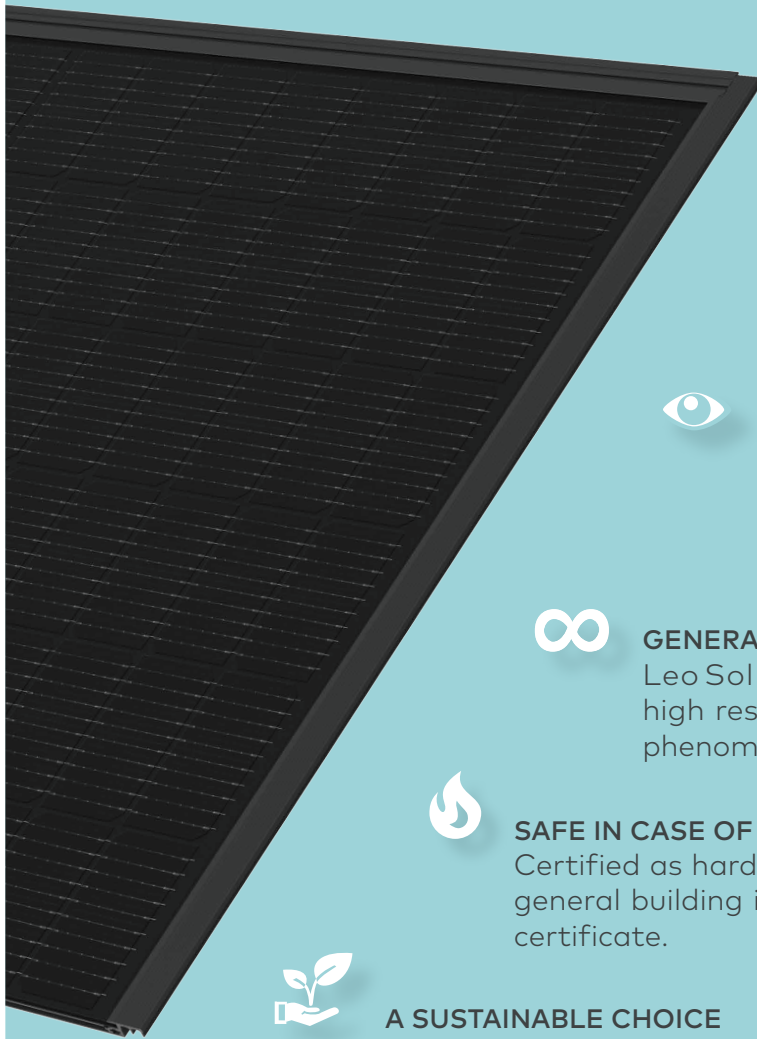


LEO Sol 340-355 W

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



25 Years linear
Power Guarantee



25 Years
Product Warranty

100% cost recovery of guarantee claims.

Under the terms and conditions of the respective guarantee certificate.

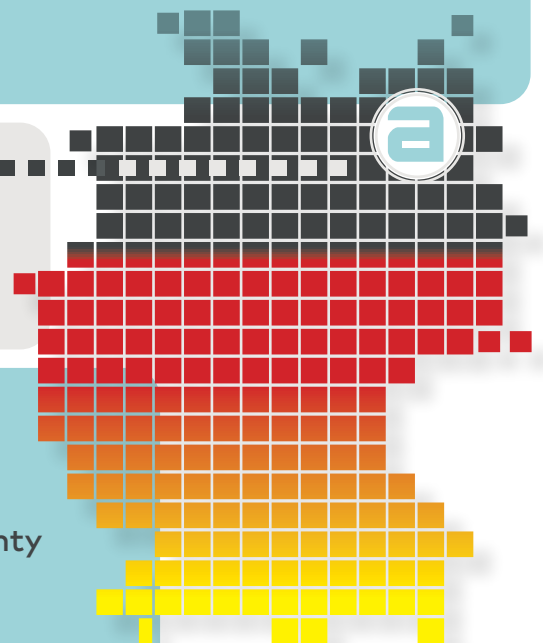
QUALITY UNDER HAND AND SEAL



Design optimized with

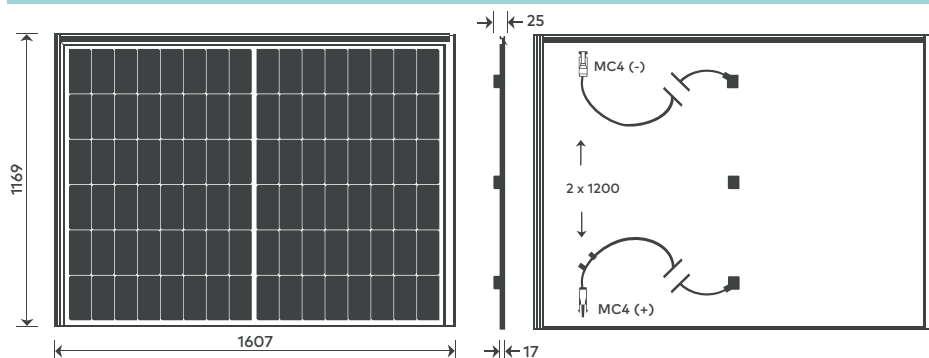
SmartCalc.Module

aleo
www.aleo-solar.com



aleo solar panel LEO Sol 340-355 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 1589 mm
Please refer to the planning help on the website www.aleo-solar.com

BASIC MODULE DATA

Length x width x height	[mm]	1169 x 1607 x 17 (with junction box 25) (grid dimension 1137 x 1589)
Weight	[kg]	20.5
Number of cells		96
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

ELECTRICAL DATA (STC)		S82T340	S82T345	S82T350	S82T355
Rated power	P_{MPP} [W]	340	345	350	355
Rated voltage	V_{MPP} [V]	27.66	27.85	28.04	28.24
Rated current	I_{MPP} [A]	12.30	12.39	12.48	12.57
Open-circuit voltage	V_{OC} [V]	32.88	33.00	33.12	33.24
Short-circuit current	I_{SC} [A]	12.88	12.97	13.06	13.15
Efficiency (after installation) ³	η [%]	18.8	19.1	19.4	19.6
Efficiency (before installation) ⁴	η [%]	18.1	18.4	18.6	18.9

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

ELECTRICAL DATA (LOW IRRADIANCE)		S82T340	S82T345	S82T350	S82T355
Power	P_{MPP} [W]	65	66	68	69

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	

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

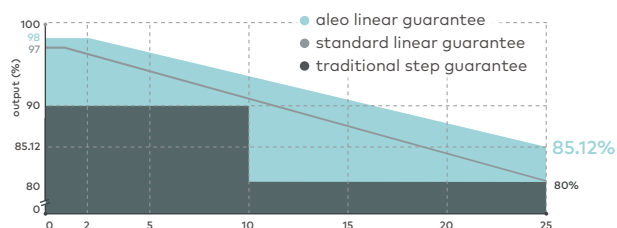
TEMPERATURE COEFFICIENTS

Temperature coefficient I_{SC}	$\alpha (I_{SC})$	[%/K]	+0.03
Temperature coefficient V_{OC}	$\beta (V_{OC})$	[%/K]	-0.26
Temperature coefficient P_{MPP}	$\gamma (P_{MPP})$	[%/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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GERMANY

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