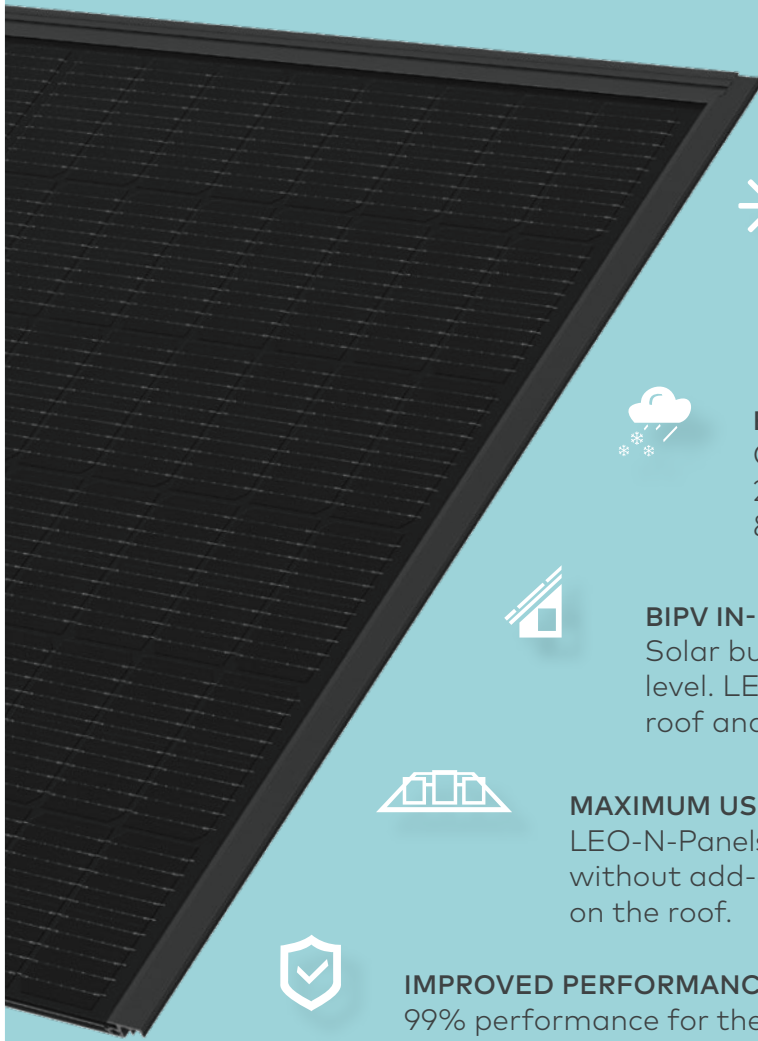


LEO-N Sol 370-380 W

Premium PV Panel

The durable one.
For a green planet.



N-TYPE TOPCON CELL
Longer-lasting, more powerful & efficient.



STRONG IN HEAT

Higher yield at high temperatures due to low temperature coefficient.



EXTREMELY WEATHER RESISTANT

Certified for 8100 Pa snow load & 2400 Pa wind load & 40 mm hailstones & Hail Class 3.



BIPV IN-ROOF SOLUTION

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



MAXIMUM USE OF SPACE

LEO-N-Panels with 108 & 96 cells can be combined without add-ons. For maximum energy generation on the roof.



IMPROVED PERFORMANCE WARRANTY

99% performance for the first year, 87.4% performance in the 30th operational year.

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 Guarantee

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

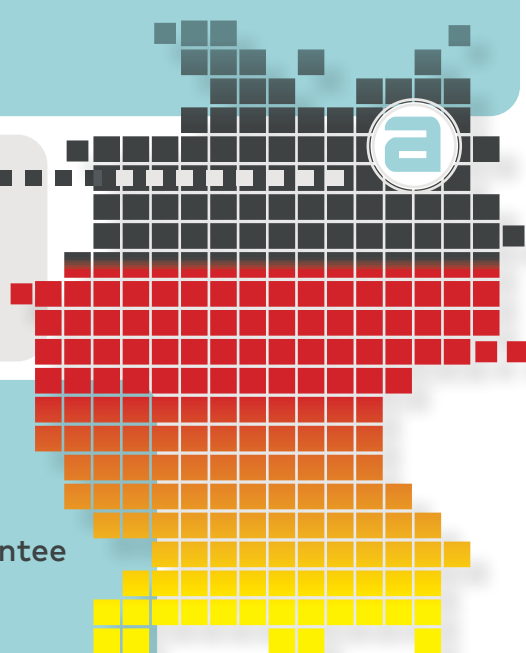
QUALITY UNDER HAND AND SEAL



Design optimized with

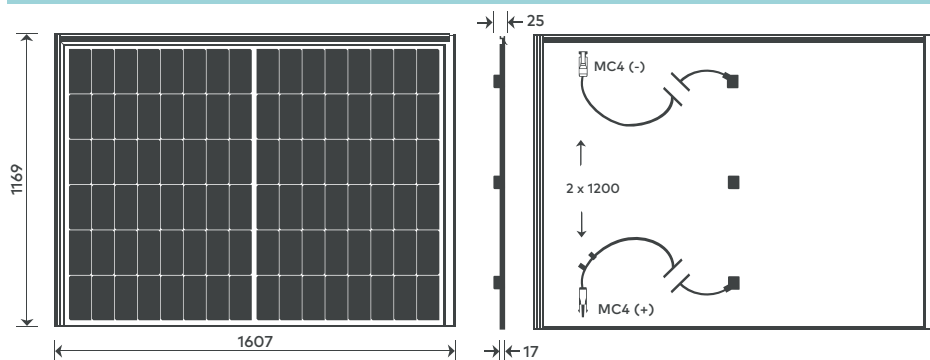
SmartCalc.Module

aleo
www.aleo-solar.com



aleo solar panel LEO-N Sol 370-380 W Premium - preliminary

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, n-type TOPCon
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)

		S82T370	S82T375	S82T380
Rated power	P_{MPP} [W]	370	375	380
Rated voltage	V_{MPP} [V]	29.67	29.86	30.04
Rated current	I_{MPP} [A]	12.47	12.56	12.65
Open-circuit voltage	V_{OC} [V]	34.71	34.90	35.09
Short-circuit current	I_{SC} [A]	13.13	13.22	13.31
Efficiency (after installation) ³	h [%]	20.5	20.8	21.0
Efficiency (before installation) ⁴	h [%]	19.7	20.0	20.2

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

ELECTRICAL DATA (LOW IRRADIANCE)

		S82T370	S82T375	S82T380
Power	P_{MPP} [W]	74	75	76

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 - IN PROCESS

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 61730:2023 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

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

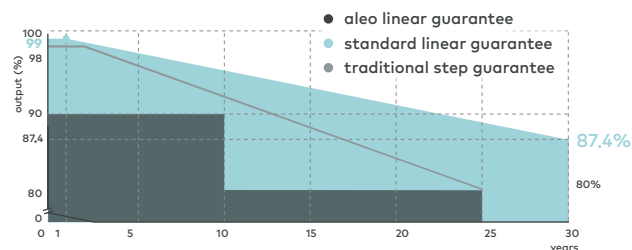
TEMPERATURE COEFFICIENTS

Temperature coefficient I_{SC}	$\alpha (I_{SC})$	[%/K]	+0.029
Temperature coefficient V_{OC}	$\beta (V_{OC})$	[%/K]	-0.24
Temperature coefficient P_{MPP}	$\gamma (P_{MPP})$	[%/K]	-0.31

GUARANTEES

Product Guarantee	30 years
Power Guarantee	30 years - linear

PERFORMANCE GUARANTEE



PLEASE CONTACT YOUR AUTHORISED ALEO DEALER

ALEO SOLAR GMBH

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17291 PRENZLAU
GERMANY

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