LEO-N Black 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.

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

GENERATES MORE ELECTRICITY
Consistently high performance thanks to high resistance to performance degradation (PID).

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

A SUSTAINABLE CHOICE
A premium product, which lasts for decades. Manufactured according to rigid environmental standards.
PFAS-free, produced with 100% green electricity.

MADE IN GERMANY!

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

FULL SERENITY

30 Years linear **Power Guarantee**

30 Years **Product Guarentee**

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

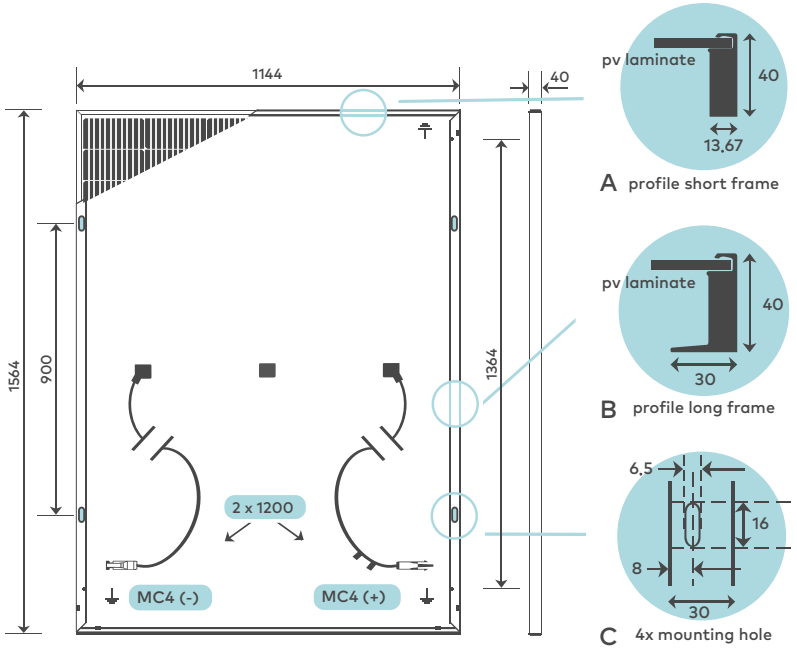
QUALITY UNDER HAND AND SEAL

Design optimized with SmartCalc.Module

aleo
www.aleo-solar.com

LEO-N Black 370-380 W Premium

DIMENSIONS [MM]



BASIC MODULE DATA

Length x width x height	[mm]	1564 x 1144 x 40
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

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

ELECTRICAL DATA (STC)

			L82S370	L82S375	L82S380
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	h	[%]	20.7	21.0	21.2

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

ELECTRICAL DATA (LOW IRRADIANCE)

			L82S370	L82S375	L82S380
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 %
Efficiency related to gross module area

CLASSIFICATION

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

CERTIFICATIONS

Fire Resistance	Class C (IEC 61730), E (EN 13501-1), B2 (DIN 4102-1)
Protection Against Electric Shock	II
IEC 61215:2021, IEC 61730:2023 including:	
- IEC 62804 – PID Resistance	
- IEC/TS 62782:2016 - Dynamic mechanical load testing	
IEC 62716 – Ammonia Resistance	
IEC 61701 – Salt mist Resistance	
IEC 60068-2-68:1994 - Sand- and Dust test (in process)	
Hail resistance class 4 (40 mm hailstones)	
Snail trail free (AgNP Test) (in process)	

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

LOADS

Max. module pressure load (Testload)		[Pa]	5400
Max. module pressure load (Designload)[2]		[Pa]	3600[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

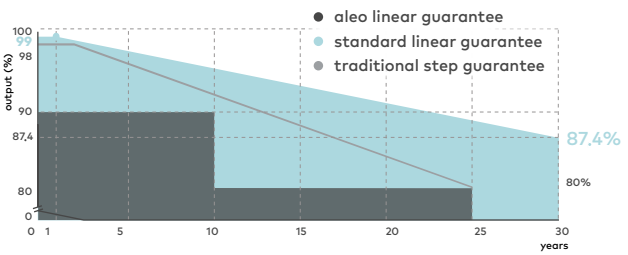
TEMPERATURE COEFFICIENTS

Temperature coefficient I_{SC}	α (I_{SC})	[%/K]	+0.029
Temperature coefficient V_{OC}	β (V_{OC})	[%/K]	-0.24
Temperature coefficient P_{MPP}	Y (P_{MPP})	[%/K]	-0.31

GUARANTEES

Product Guarantee	30 years
Power Guarantee	30 years – linear

PERFORMANCE GUARANTEE



PLEASE CONTACT YOUR AUTHORISED ALEO DEALER

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