

LEO Black 380-390 W

Premium PV Panel

The durable one.
For a green planet.



ELEGANT BLACK ROOF

Thanks to covered cross-connectors and improved cell connector optics, LEO Black is darker and looks more homogeneous.



GENERATE MORE POWER

Shows an extremely high resistance to degradation phenomena (PID & LeTID).



EXTREMELY WEATHER RESISTANT

Certified to withstand 8100 Pa Snowload & 3600 Pa Windload & 40 mm Hailstones (Hail-Class 4).



POWERFUL IN ALL ENVIRONMENTS

Certified to perform in coastal areas (salt-mist), deserts (dust) and farmland (ammonia).



MAXIMUM USE OF SPACE

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



A SUSTAINABLE CHOICE

A premium product, which lasts for decades. Manufactured according to rigid environmental standards. 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



Years linear
Power Guarantee



Years
Product Warranty

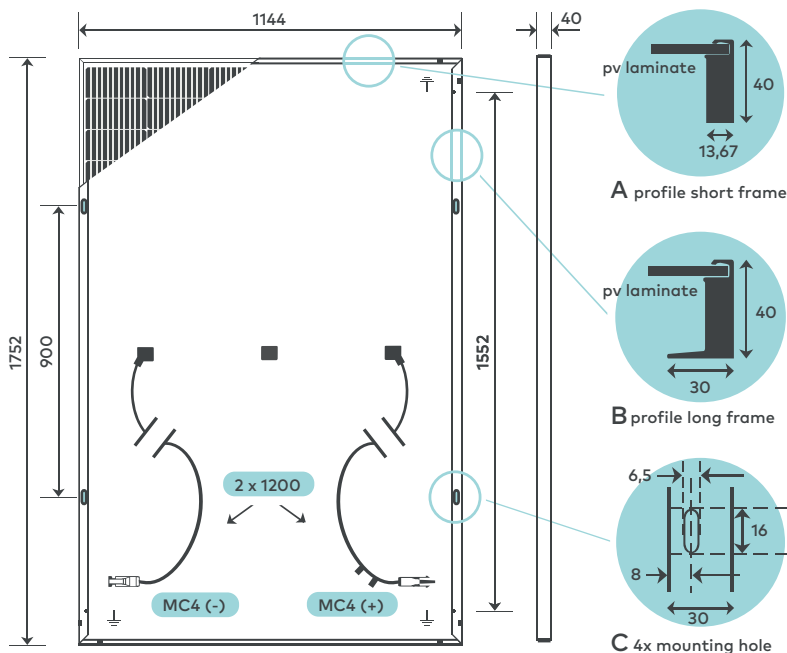
100% cost recovery of guarantee claims.
Under the terms and conditions of the respective guarantee certificate.

QUALITY UNDER HAND AND SEAL



aleo solar panel LEO Black 380-390W Premium

DIMENSIONS [mm]



BASIC MODULE DATA

Length x width x height	[mm]	1752 x 1144 x 40
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)
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)

		L84S380	L84S385	L84S390
Rated power	P_{MPP} [W]	380	385	390
Rated voltage	V_{MPP} [V]	31.02	30.21	31.40
Rated current	I_{MPP} [A]	12.26	12.34	12.42
Open-circuit voltage	V_{OC} [V]	36.93	37.05	37.17
Short-circuit current	I_{SC} [A]	12.85	12.94	13.02
Efficiency	η [%]	19.0	19.2	19.5

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

ELECTRICAL DATA (LOW IRRADIANCE)

		L84S380	L84S385	L84S390
Power	P_{MPP} [W]	73	74	75

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

Protection Against Electric Shock II

IEC 61215:2021, IEC 61730:2016 including:

- IEC 62804 – PID Resistance

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

IEC 62716 – Ammonia Resistance

LeTID Resistance

IEC 61701 – Salt mist Resistance

IEC 60068-2-68:1994 - Sand- and Dust test

Hail resistance class 4 (40 mm hailstones)

Snail trail free (AgNP Test)

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]	8100 ¹
Max. module pressure load (Designload) ²	[Pa]	5400 ¹
Max. module suction load (Testload)	[Pa]	3600 ¹
Max. module suction load (Designload) ²	[Pa]	2400 ¹
Max. system voltage	[V _{OC}]	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

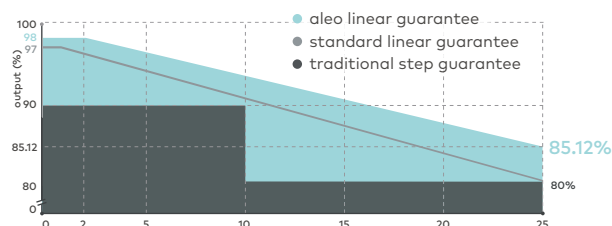
TEMPERATURE COEFFICIENTS

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



ALEO SOLAR GMBH

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PANELS WITH THE MOST
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