LEO Black 380-395 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

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

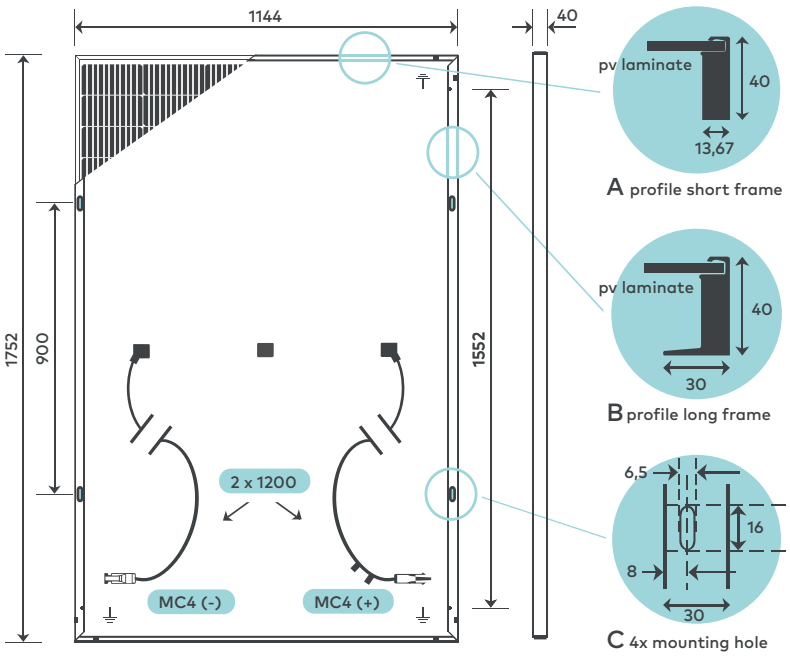
Design optimized with SmartCalc.Module

aleo

www.aleo-solar.com

aleo solar panel LEO Black 380-395 W 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)

			LEO BLACK L84S380	LEO BLACK L84S385	LEO BLACK L84S390	LEO BLACK L84S395
Rated power	P_{MPP}	[W]	380	385	390	395
Rated voltage	V_{MPP}	[V]	31.02	30.21	31.40	31.60
Rated current	I_{MPP}	[A]	12.26	12.34	12.42	12.50
Open-circuit voltage	V_{OC}	[V]	36.93	37.05	37.17	37.29
Short-circuit current	I_{SC}	[A]	12.85	12.94	13.02	13.10
Efficiency	η	[%]	19.0	19.2	19.5	19.7

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

ELECTRICAL DATA (LOW IRRADIANCE)

			LEO BLACK L84S380	LEO BLACK L84S385	LEO BLACK L84S390	LEO BLACK L84S395
Power	P_{MPP}	[W]	73	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 Resistancet	Class C (IEC 61730), E (EN 13501-1), B2 (DIN 4102-1), 1 (UNI 9177)
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 (optional)	
LeTID Resistance (optional)	
IEC 61701 – Salt mist Resistance (optional)	
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_{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

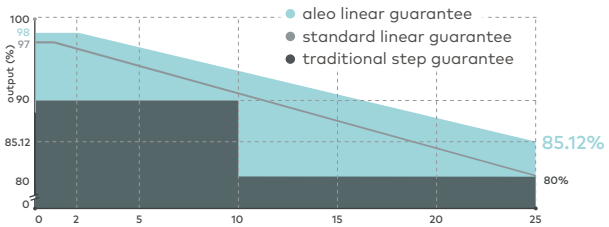
TEMPERATURE COEFFICIENTS

Temperature coefficient I_{SC}	α (I_{SC})	[%/K]	+0.03
Temperature coefficient V_{OC}	β (V_{OC})	[%/K]	-0.26
Temperature coefficient P_{MPP}	Y (P_{MPP})	[%/K]	-0.34

GUARANTEES

Product Guarantee	25 years
Power Guarantee	25 years – Linear

PERFORMANCE GUARANTEE



PLEASE CONTACT YOUR AUTHORISED ALEO DEALER

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