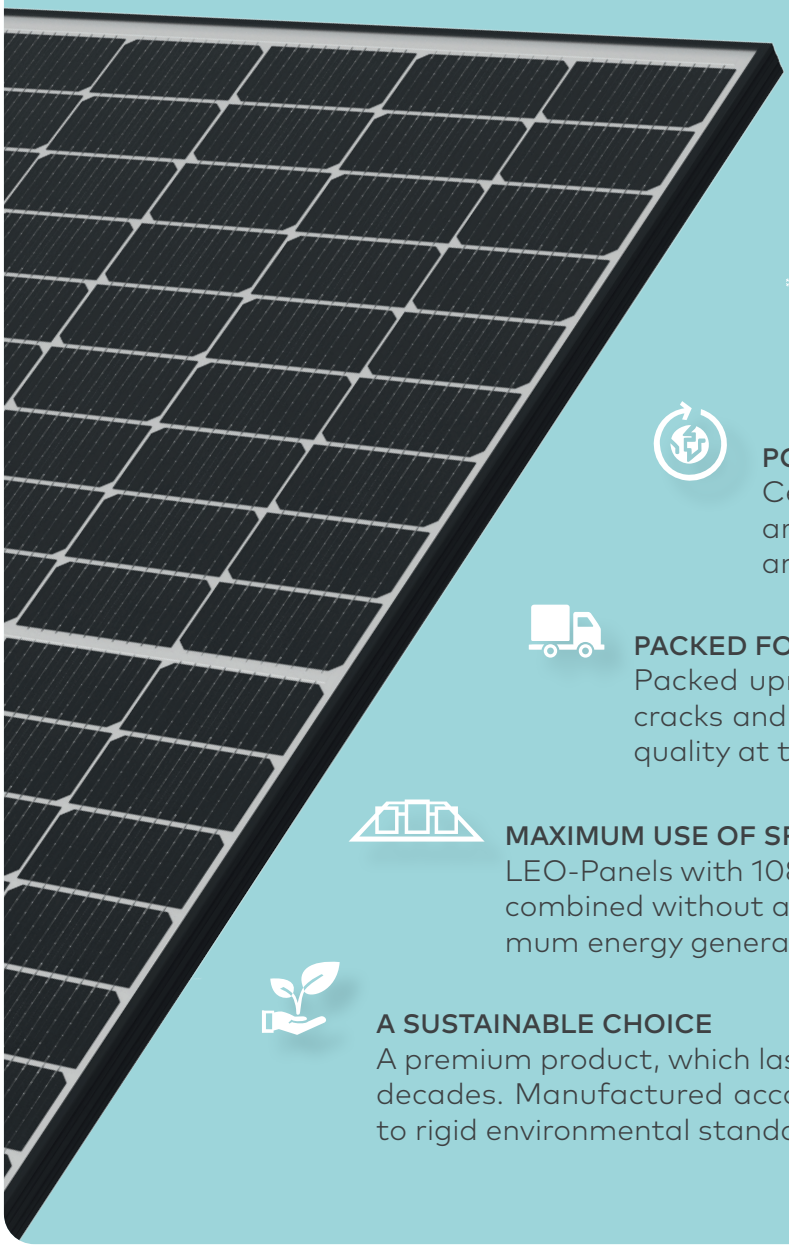
LEO 395-405 W

Premium PV Panel

The durable one.
For a green planet.



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).

PACKED FOR SAFE TRANSPORT
Packed upright, avoiding micro-cracks and thus ensuring factory quality at the place of delivery.

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.

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**

+ Replacement Guarantee. 100% cost recovery for defects.

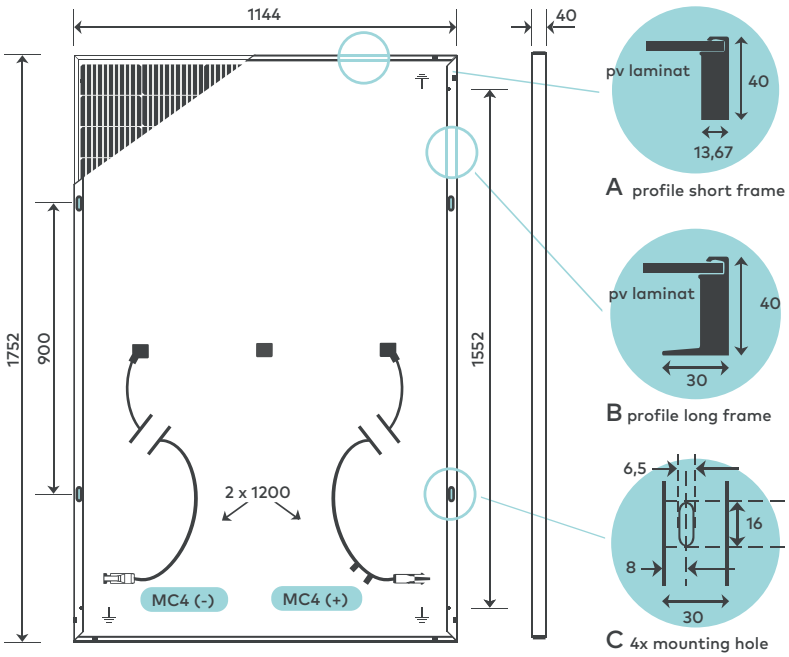
Under the terms and conditions of the respective guarantee certificate.

www.aleo-solar.com

aleo

aleo solar panel LEO 395-405W 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, white
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)

			L64S395	L64S400	L64S405
Rated power	P_{MPP}	[W]	395	400	405
Rated voltage	V_{MPP}	[V]	30.95	31.14	31.34
Rated current	I_{MPP}	[A]	12.76	12.84	12.92
Open-circuit voltage	V_{OC}	[V]	36.96	37,08	37.20
Short-circuit current	I_{SC}	[A]	13.38	13.46	13.55
Efficiency	η	[%]	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)

			L64S395	L64S400	L64S405
Power	P_{MPP}	[W]	76	77	78

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 relating to gross module area

CLASSIFICATION

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

CERTIFICATIONS (IN PROCESS)

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 Certification according to DIN EN ISO 9001:2015, 14001:2015, 45001:2018, 50001:2018

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

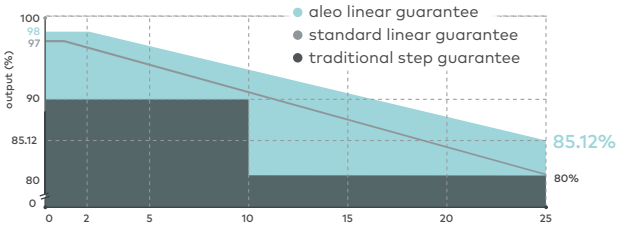
TEMPERATURE COEFFICIENTS

Temperature coefficient I_{SC}	α (I_{SC})	[%/K]	+0.03
Temperature coefficient V_{OC}	ß (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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