LEO-N Black 420-430 W

Premium PV Panel

The durable one.

For a green planet.



N-TYPE TOPCON CELL

Longer-lasting, more powerful & efficient.



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



 $C \in$

Years linear **Power Guarantee**



Product Guarentee

100% cost recovery of guarantee claims.

Under the terms and conditions of the respective guarantee certificate.

QUALITY UNDER HAND AND SEAL



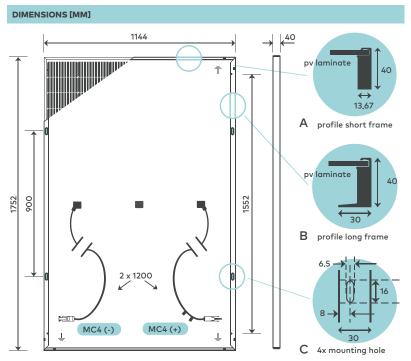








aleo solar panel LEO-N Black 420-430 W Premium



ELECTRICAL DATA (S	тс)		L84S420	L84S425	L84S430
Rated power	P_{MPP}	[W]	420	425	430
Rated voltage	$V_{\rm MPP}$	[V]	33.52	33.71	33.89
Rated current	I _{MPP}	[A]	12.53	12.61	12.69
Open-circuit voltage	V_{oc}	[V]	39.19	39.38	39.57
Short-circuit current	I _{sc}	[A]	13.19	13.27	13.35
Efficiency	h	[%]	21.0	21.2	21.5

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

ELECTRICAL DATA (LOW I	RRADIAN	ICE)	L84S420	L84S425	L84S430
Power	P_{MPP}	[W]	84	85	86

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		
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

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, n-type TOPCon
Number of Busbars		10
Front sheet		3.2 mm Solar glass (TSG) with anti-reflective coating
Back sheet		Polymer sheet, white
Frame material		Al alloy, black
BASIC DATA JUNCTION B	юх	
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
		genuine MC4

LOADS			
Max. module pressure load (Testload)		[Pa]	5400¹
Max. Module pressure load (Testioda)		[Fu]	3400
Max. module pressure load (Designload) ²		[Pa]	3600 ¹
Max. module suction load (Testload)		[Pa]	2400¹
Max. module suction load (Designload) ²		[Pa]	1600¹
Max. system voltage		$[V_{DC}]$	1000
Reverse current load	I_R	[A]	25

acc. to EN 62852

Mechanical load acc. to IEC/EN 61215:2021

Connectors

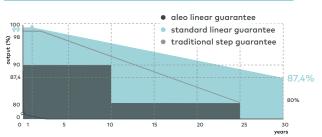
Please observe the mounting conditions in the installation manual

² Testload/Safety factor 1.5 = Designload

TEMPERATURE COEFFICIENTS			
Temperature coefficient I _{sc}	$\alpha (l_{sc})$	[%/K]	+0.029
Temperature coefficient $V_{\rm oc}$	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

ALEO SOLAR GMBH

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