LEO-N 430-440 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 & LeTID).



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.



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**



Years

Product Guarentee

100% cost recovery of guarantee claims.

Under the terms and conditions of the respective guarantee certificate.

QUALITY UNDER HAND AND SEAL

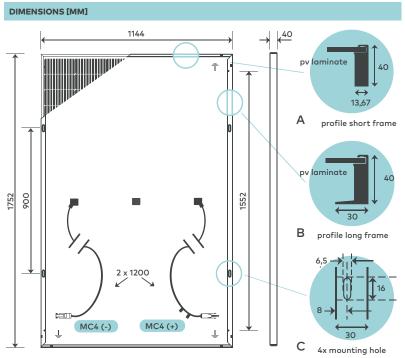
PV CYCLE







aleo solar panel LEO-N 430-440 W Premium



ELECTRICAL DATA (S	тс)		L64S430	L64S435	L64S440
Rated power	P _{MPP}	[W]	430	435	440
Rated voltage	$V_{\rm MPP}$	[V]	33.20	33.38	33.56
Rated current	I _{MPP}	[A]	12.95	13.03	13.11
Open-circuit voltage	V_{oc}	[V]	39.22	39.41	39.60
Short-circuit current	I _{sc}	[A]	13.63	13.71	13.79
Efficiency	h	[%]	21.5	21.7	22.0

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

ELECTRICAL DATA (LOW IR	RADIA	NCE)	L64S430	L64S435	L64S440
Power	P _{MPP}	[W]	86	87	88

Electrical values measured under: 200 W/m²; 25 °C; AM 1.5 Measurement tolerance of $\rm P_{MPP}$ 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

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) (in process)

Snail trail free (AgNP Test)

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

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 BO	ЭX			
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		

LOADS			
Max. module pressure load (Testload)		[Pa]	5400¹
Max. module pressure load (Designload) ²		[Pa]	3600¹
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

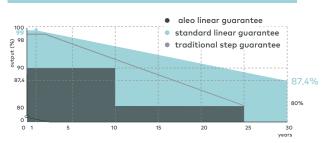
Please observe the mounting conditions in the installation manual

² Testload/Safety factor 1.5 = Designload

TEMPERATURE COEFFICIENTS	;			
Temperature coefficient I _{sc}	$\alpha \left(I_{sc} \right)$	[%/K]	+0.029	
Temperature coefficient $V_{\rm oc}$	ß (V _{oc})	[%/K]	-0.24	
Temperature coefficient P	Y (P)	[%/K]	-0.31	

GUARANTEES	
Product Guarantee	30 years
Power Guarantee	30 years - linear

PERFORMANCE GUARANTEE



PLEASE CONTACT YOUR AUTHORISED ALEO DEALER

ALEO SOLAR GMBH

Marius-Eriksen-Straße 1 17291 PRENZLAU **GERMANY**

CONTACT

+49 3984-8328-0 info@aleo-solar.com www.aleo-solar.com

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