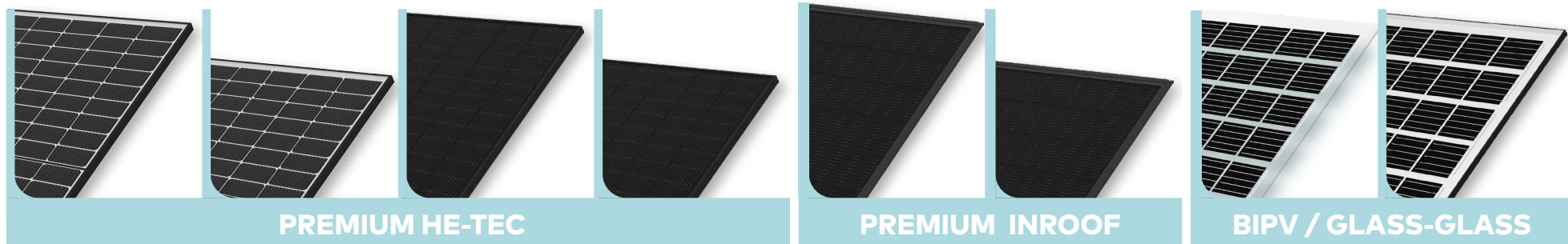


MODULES OVERVIEW

Solar Competence. Made in Germany. Since 2001.

improved cell technology **N-type TopCon**



Glass-foil (white backsheet)
Interconnectable

Glass-foil (black backsheet)
Interconnectable

Solrif System Glass-foil (black backsheet)
Interconnectable

Laminated safety glass
with DIBt approval

Insulating and thermal
glazing

LEO-N

LEO-N Black

LEO-N Sol

Elegante

Isolante

Powerclass	430-440 W	380-390 W	420-430 W	370-380 W	420-430 W	370-380 W	210 W	210 W
Number of Cells	108 half cells	96 half cells	108 half cells	96 half cells	108 half cells	96 half cells	40	40
Product code	L64Sppp.0.5W	L62Sppp.0.5W	L84Sppp.0.5W	L82Sppp.0.5W	S84Tppp.0.5W	S82Tppp.0.5W	G40	I40
Cell Material	Monocrystalline Si, n-type TOPCon	Monocrystalline Si, n-type TOPCon	Monocrystalline Si, n-type TOPCon	Monocrystalline Si, n-type TOPCon	Monocrystalline Si, n-type TOPCon	Monocrystalline Si, n-type TOPCon	Monocrystalline Si PERC	Monocrystalline Si PERC
Length x Width x Height (mm)	1752 x 1144 x 40	1564 x 1144 x 40	1752 x 1144 x 40	1564 x 1144 x 40	1169 x 1795 x 17 (grid dimension 1137 x 1777)	1169 x 1607 x 17 (grid dimension 1016 x 1741)	1600 x 950 x 9 (12.5 height junction box)	1600 x 950 x 33.8
Weight (kg)	22	20.5	22	20.5	22	20.5	31.5	54
Connectors	original MC4	original MC4	original MC4	original MC4	original MC4	original MC4	TE Slim Line	TE Slim Line
max. System Voltage (Vdc)	1000	1000	1000	1000	1000	1000	1000	1000
max. module pressure load ¹ (Pa)	5400	5400	5400	5400	5400	5400	7500	k. A.
max. module suction load suction ¹ (Pa)	2400	2400	2400	2400	2400	2400	5400	k. A.
classification range (W)	0/+4.99	0/+4.99	0/+4.99	0/+4.99	0/+4.99	0/+4.99	-/+ 4,99	-/+ 4,99
power guarantee ²	30 years	30 years	30 years	30 years	30 years	30 years	30 years	30 years ³
product guarantee ²	30 years	30 years	30 years	30 years	30 years	30 years	30 years	30 years ³

¹ Mechanical load according to IEC/EN 61215 (Testload) | Please observe the mounting conditions in the installation manual. | Testload = Designload x 1,5 Factor of safety.

² Detailed information on our product and our performance guarantees accessible online at www.aleo-solar.de | Subject to errors and updates.

³ The product and performance guarantee applies only to the PV component of the insulating glass.



GERMAN TECHNOLOGY AND MANUFACTURING.

aleo
www.aleo-solar.com

FOR HIGH-QUALITY SOLAR MODULES. When you purchase solar modules from aleo you can rely on expert knowledge and genuine Made in Germany since **2001**. Our products are designed under the aspects of **quality and durability** and manufactured in our certified production facility in Prenzlau, Germany.

30 YEARS
30 YEARS

POWER GUARANTEE*
PRODUCT GUARANTEE**

100%

**COST REFUND
FOR DEFECTS.****

* For all LEO-N modules as well as Elegante and Isolante.

** If our modules show material and processing defects caused by the manufacturer, or should the power output be below the guaranteed values, we will bear the following costs within the framework of the conditions stated in the guarantee certificate: Reasonable transport costs for the delivery of replacement modules

+ Return of repaired or replaced modules

+ Costs related to the installation, extension or reinstallation of the modules

WE TEST WAY BEYOND STANDARD

In order to simulate the expected lifetime of modules, international standards are not stringent enough. We test every new material at least twice as much IEC standards and even far beyond when we consider it necessary.



100% diodes tested



3 x 100% Electroluminescence-Tests
to detect even the finest cracks in modules



3 x triple Climate Chamber Test
intensified reality under extreme conditions

**Extreme
Temperatures**

600 cycles
-40 to +85 °C

200 cycles

(Thermal Cycling Test)

High Humidity

3000 hours
85°C at 85 % Humidity

1000 hours

(Damp Heat Test)

**Frost &
Humidity**

30 cycles
-40 to 85 °C at 85% humidity

10 cycles

(Humidity-Freeze-Test)

 aleo  IEC-Standard

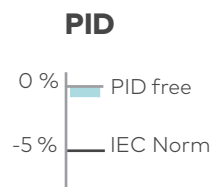
OUR QUALITY IS CERTIFIED

The LEO-N modules are certified according to IEC 61215:2021 and IEC 61730:2023. In addition, our modules have received the following certificates.



Generate more power

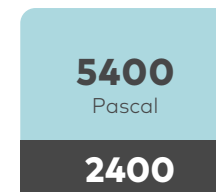
aleo modules show an extremely high resistance to degradation phenomena (PID). The associated power losses are far below those required by IEC standard.



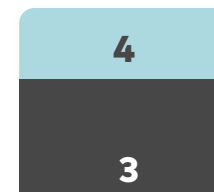
Extremely weather resistant

Modules must be able to withstand heavy snow, wind and hail. aleo's Premium HE-Tec* modules are much more robust than the standard requires.

* LEO-N Sol -
Hail resistance class 3



Pressure
(Snow & Wind)



Hailclass
(Tested with 40mm hailgrains)

Versatile application



Salt mist corrosion resistance
(IEC 61701:2020)

class 6
Certified for use in coastal areas



Ammonia corrosion resistance
(IEC 62716:2013)

Certified for use in agricultural areas



Sand & Dust resistance
(IEC 60068-2-68:1994)

Certified for use in regions with high sand / dust levels



Snail Trail Free
(AgNP test)
Certified to be free of snail trails