

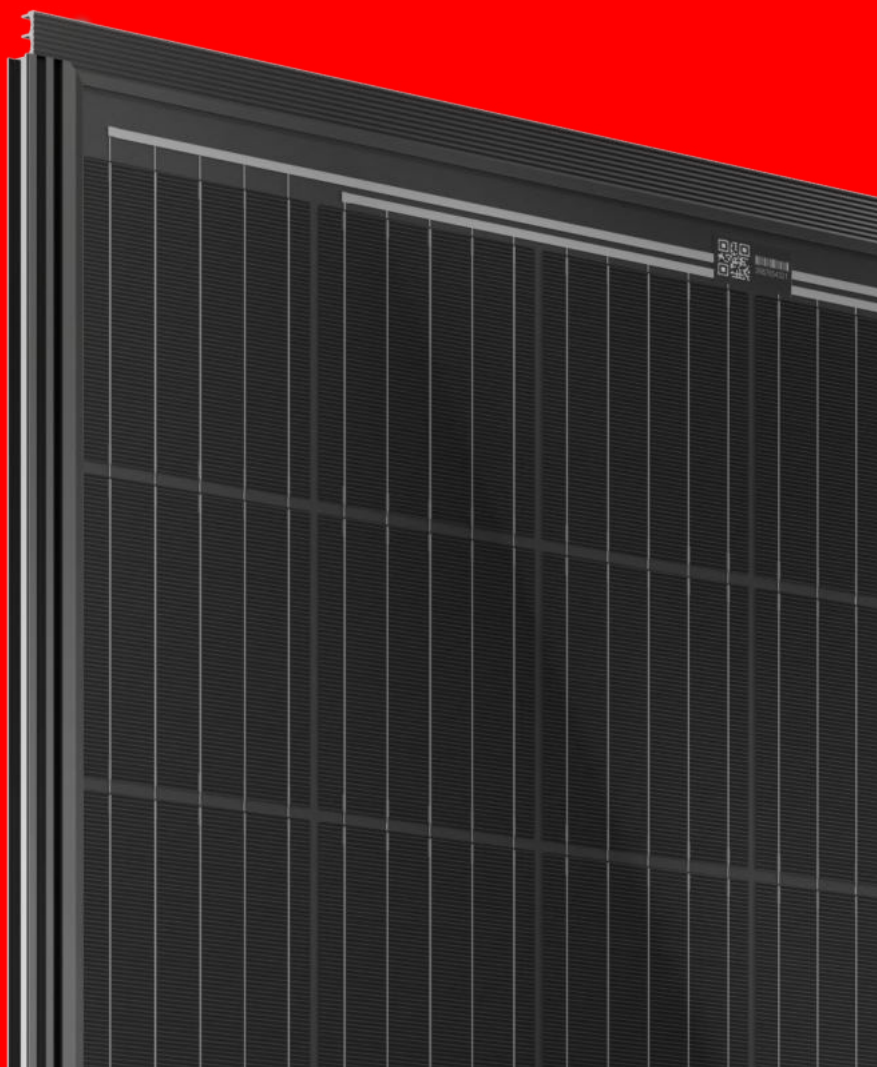
S81 sol Premium

255 - 265 W

48 cells - connectable with
our 60 cell module



 **Made in
GERMANY**



GERMAN ENGINEERING AND MANUFACTURING

Incorporated in 2001, aleo is recognized as one of the most trustworthy manufacturers of solar panels. We produce all our products in our certified production plant in Prenzlau, Germany.

THE BEST GUARANTEE PACKAGE

 25 Years Product Guarantee  25 Years linear Performance Guarantee

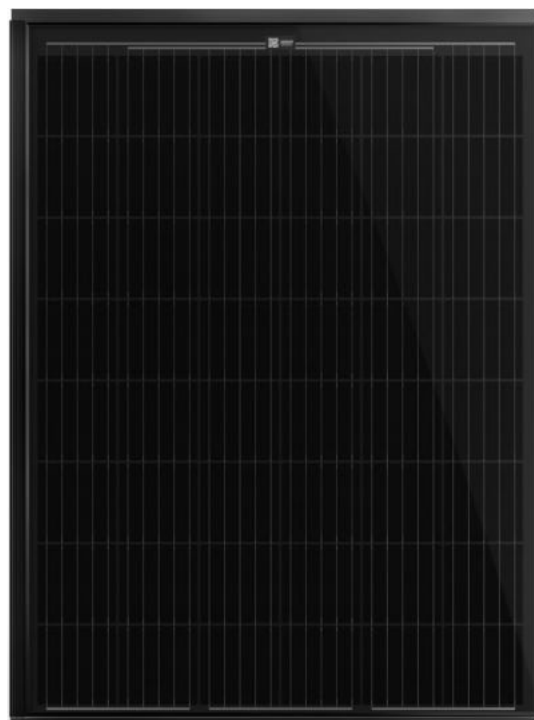
98% of nominal power guaranteed in the first two years

SOLRIF IN-ROOF MODULE

- + Complete package with flashing
- + Replaces the conventional roof covering
- + As weather-tight as a traditionally tiled roof
- + Higher surface yield due to narrow frame profiles
- + With aleo blind modules, full roof coverage is possible

OUR QUALITY IS CERTIFIED

- + IEC 61215:2016 and IEC 61730:2016
- + General Building Supervision Test Report against flying sparks and radiant heat (hard roofing)
- + PID resistance
- + LeTID resistance
- + Dynamic mechanical load test
- + Snail Trail Free



aleo solar module S81 sol Premium

ELECTRICAL DATA (STC)		S81T255	S81T260	S81T265
Rated power	P_{MPP} [W]	255	260	265
Rated voltage	V_{MPP} [V]	26.5	26.6	26.7
Rated current	I_{MPP} [A]	9.56	9.74	9.93
Open-circuit voltage	V_{OC} [V]	32.4	32.5	32.6
Short-circuit current	I_{SC} [A]	10.07	10.27	10.47
Efficiency	η [%]	17.0	17.3	17.7

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

ELECTRICAL DATA (NMOT)		S81T255	S81T260	S81T265
Power	P_{MPP} [W]	189	192	196
Voltage	V_{MPP} [V]	24.6	24.7	24.7
Current	I_{MPP} [A]	7.62	7.77	7.92
Open-circuit voltage	V_{OC} [V]	30.3	30.4	30.5
Short-circuit current	I_{SC} [A]	8.11	8.27	8.43
Efficiency	η [%]	15.7	16.0	16.3

Electrical values measured under nominal operating conditions of cells: 800 W/m²; 20°C; AM 1.5; wind 1 m/s; Module temperature NMOT: 45,5°C

ELECTRICAL DATA (LOW IRRADIANCE)		S81T255	S81T260	S81T265
Power	P_{MPP} [W]	50	51	52

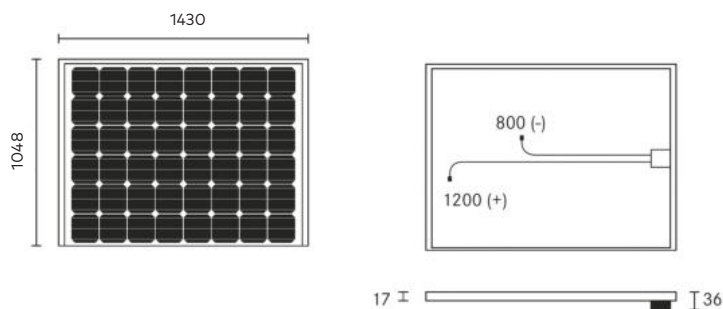
Electrical values measured under: 200 W/m²; 25°C; AM 1,5

TEMPERATURE COEFFICIENTS			
Temperature coefficient I_{SC}	$\alpha (I_{SC})$	[%/K]	+0.05
Temperature coefficient V_{OC}	$\beta (V_{OC})$	[%/K]	-0.29
Temperature coefficient P_{MPP}	$\gamma (P_{MPP})$	[%/K]	-0.40

BASIC DATA JUNCTION BOX	
Length x width x height	[mm] 148 x 123 x 27
IP class	IP67
Cable length	[mm] 1200 (+), 800 (-)
Connectors	MC4
Bypass diodes	3

CLASSIFICATION	S81T255	S81T260	S81T265
Classification range (positive classification) [W]	0/+4,99	0/+4,99	0/+4,99

DIMENSIONS [mm]



BASIC MODULE DATA		
Length x width x height	[mm]	1048 x 1430 x 36 (grid dimension 1016 x 1412)
Weight	[kg]	16
Number of cells		48
Cell size	[mm]	158.75 x 158.75
Cell material		Monocrystalline Si, PERC
Number of bus bars		5
Front sheet		Solar glass (TSG)
Back sheet		Polymer sheet, black
Frame material		Al alloy, black

CERTIFICATION	
Fire Resistance	Class C
Protection Against Electric Shock	II
IEC 61215:2016, IEC 61730:2016	

IEC 62804 – PID Resistance

LeTID Resistance

Snail trail free (AgNP Test)

IEC/TS 62782:2016 - Dynamic mechanical load testing

General Building Supervision Test Report against flying sparks and radiant heat (hard roofing)

LOADS		
Max. module pressure load (Testload)	[Pa]	5400 ¹
Max. module pressure load (Designload) ²	[Pa]	3600 ¹
Max. module suction load (Testload)	[Pa]	2400 ¹
Max. module suction load (Designload) ²	[Pa]	1600 ¹
Max. system voltage	[V _{DC}]	1000
Reverse current load	I_R [A]	20

Mechanical load acc. to IEC/EN 61215:2016

¹ Please observe the mounting conditions in the installation manual
² Testload/ Safety factor 1.5 = Designload

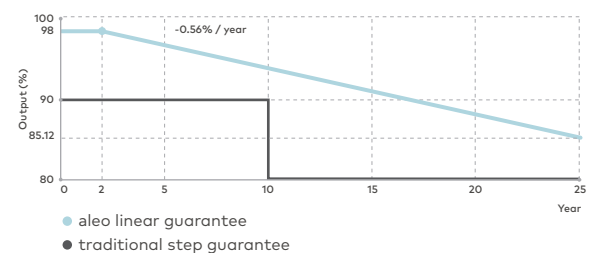
Measurement tolerance of P_{MPP} under STC -3/+3% |
Accuracy of other electrical values -10/+10%
Efficiency relating to gross module area

GUARANTEE

Product Guarantee 25 years

Power Guarantee 25 years – linear

PERFORMANCE GUARANTEE



PLEASE CONTACT YOUR AUTHORISED ALEO DEALER

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