

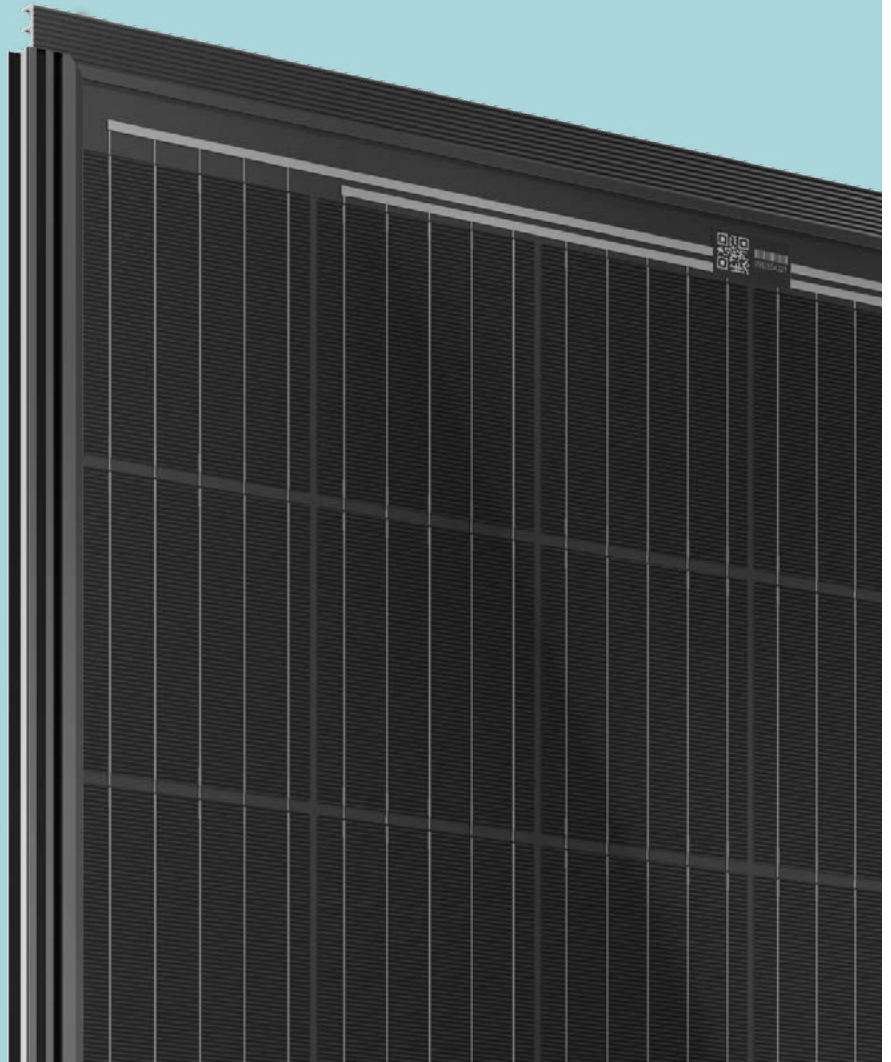
S83 sol Premium

320 - 333W

60 cells - connectable with our 48 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

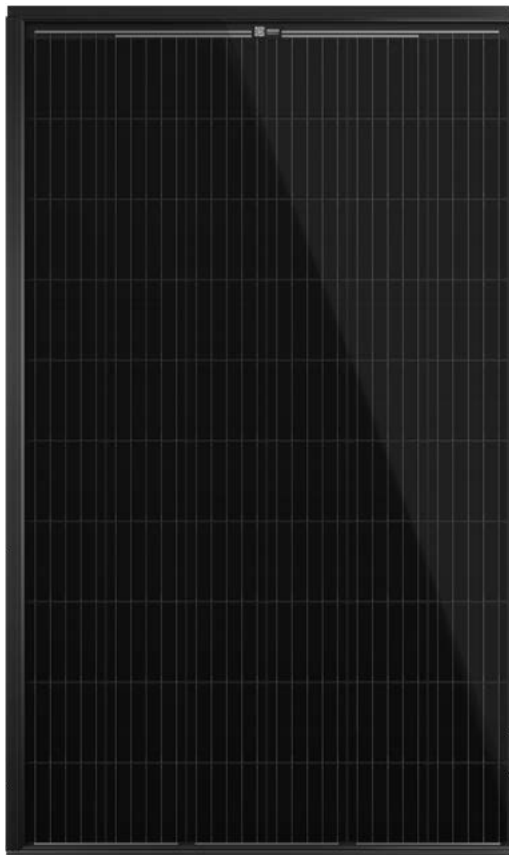
98% of nominal power guaranteed in the first two years

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

aleo solar module S83 sol Premium

ELECTRICAL DATA (STC)		S83T325	S83T330	S83T333
Rated power	P_{MPP} [W]	325	330	333
Rated voltage	V_{MPP} [V]	32.8	33.1	33.2
Rated current	I_{MPP} [A]	9.90	9.97	10.03
Open-circuit voltage	V_{OC} [V]	40.5	40.6	40.7
Short-circuit current	I_{SC} [A]	10.40	10.49	10.54
Efficiency	η [%]	17.6	17.9	16.7

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

ELECTRICAL DATA (NMOT)		S83T325	S83T330	S83T333
Power	P_{MPP} [W]	240	244	246
Voltage	V_{MPP} [V]	30.4	30.7	30.8
Current	I_{MPP} [A]	7.90	7.95	8.00
Open-circuit voltage	V_{OC} [V]	37.9	38.0	38.0
Short-circuit current	I_{SC} [A]	8.38	8.45	8.49
Efficiency	η [%]	16.3	16.5	16.7

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)		S83T325	S83T330	S83T333
Power	P_{MPP} [W]	63	64	65

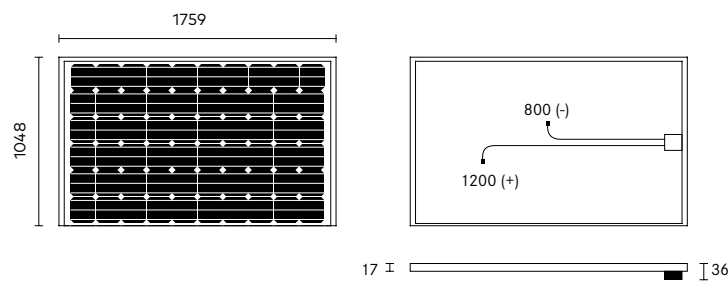
Electrical values measured under: 200 W/m²; 25°C; AM 1,5

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		S83T325	S83T330	S83T333
Classification range (positive classification)	[W]	0/+4.99	0/+2.99	0/+6.99

DIMENSIONS [mm]



BASIC MODULE DATA		
Length x width x height	[mm]	1048 x 1759 x 36 (grid dimension 1016 x 1741)
Weight	[kg]	19,5
Number of cells		60
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 _{oc}]	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

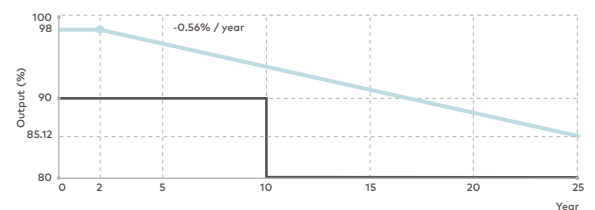
Measurement tolerance of P_{MPP} under STC -3/+3% |
Accuracy of other electrical values -10/+10%
Efficiency relating to gross module area

GUARANTEE

Product Guarantee 25 years

Power Guarantee 25 years – linear

PERFORMANCE GUARANTEE



PLEASE CONTACT YOUR AUTHORISED ALEO DEALER

For more information about this product in Thailand please contact



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