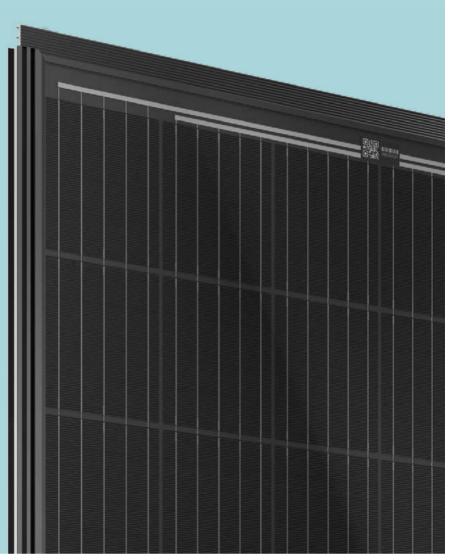
S83 sol Premium

320 - 333W

60 cells - connectable with our 48 cell module















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 (25) 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 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/m^2 ; 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 me	asured under: 200 W/	/m2; 25°C; AM 1,5		

TEMPERATURE COEFFICIENTS			
Temperature coefficient I _{sc}	a (I _{sc})	[%/K]	+0.05
Temperature coefficient $V_{\rm oc}$	ß (V _{oc})	[%/K]	-0.29
Temperature coefficient P _{MPP}	Y (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

BASIC MODULE DATA 1048 x 1759 x 36 Length x width x height [mm] (grid dimension 1016 x 1741) Weight [kg] Number of cells 60 Cell size 158.75 x 158.75 [mm] Cell material Monocrystalline Si, PERC Number of bus bars Front sheet Solar glass (TSG) Back sheet Polymer sheet, black Al alloy, black Frame material CERTIFICATION Fire Resistance Class C Protection Against Electric Shock 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)

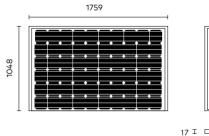
LOADS			
Max. module pressure load (Testload)		[Pa]	5400 ¹
Max. module pressure load (Designload) ²		[Pa]	3600¹
Max. module suction load (Testload)		[Pa]	24001
Max. module suction load (Designload) ²		[Pa]	1600¹
Max. system voltage		$[V_{DC}]$	1000
Reverse current load	I_R	[A]	20

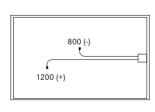
Mechanical load acc. to IEC/EN 61215:2016

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

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

DIMENSIONS [mm]









PLEASE CONTACT YOUR AUTHORISED ALEO DEALER

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■ [36

