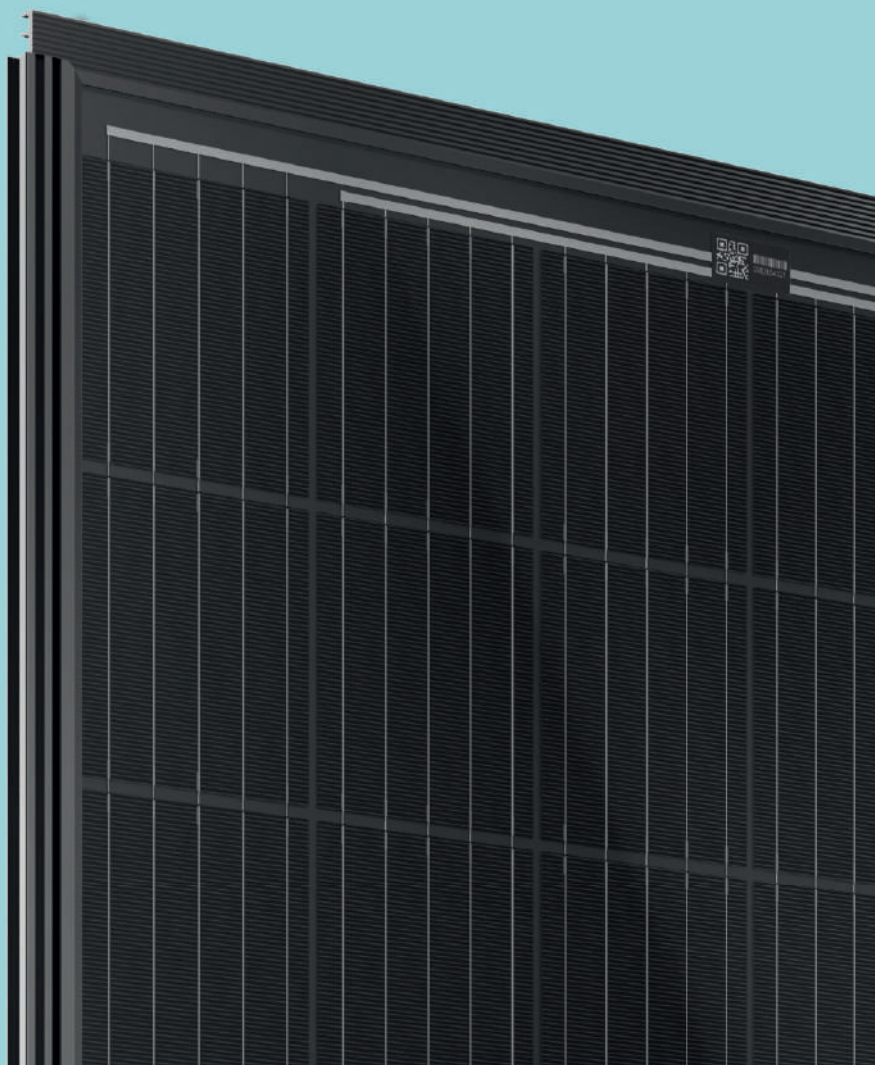


# S83 sol Premium

320 - 330W



QUALITY SIGNED AND SEALED



**ALL BLACK FINISHING BIPV SOLUTION**

**98% OF NOMINAL POWER GUARANTEED  
IN THE FIRST TWO YEARS**

**FULL PACKAGE: MODULES + FLASHINGS**

**25** 25 YEARS PRODUCT GUARANTEE

**CRAFTED WITH PASSION**

**25** 25 YEARS LINEAR PERFORMANCE  
WARRANTY

**HIGH RELIABILITY**  
all modules are checked with high  
resolution electroluminescence  
measurements.  
100% of diodes are tested.



- MADE IN GERMANY -

# aleo solar module S83 sol Premium

ELECTRICAL DATA (STC)		S83T320	S83T325	S83T330
Rated power	$P_{MPP}$ [W]	320	325	330
Rated voltage	$V_{MPP}$ [V]	32.8	33.0	33.3
Rated current	$I_{MPP}$ [A]	9.75	9.85	9.93
Open-circuit voltage	$V_{OC}$ [V]	40.3	40.5	40.7
Short-circuit current	$I_{SC}$ [A]	10.22	10.31	10.39
Efficiency	$\eta$ [%]	17.4	17.6	17.9

Electrical values measured under standard test conditions (STC): 1000 W/m<sup>2</sup>; 25°C; AM 1.5

ELECTRICAL DATA (NMOT)		S83T320	S83T325	S83T330
Power	$P_{MPP}$ [W]	236	240	244
Voltage	$V_{MPP}$ [V]	30.4	30.6	30.8
Current	$I_{MPP}$ [A]	7.78	7.85	7.92
Open-circuit voltage	$V_{OC}$ [V]	37.7	37.9	38.0
Short-circuit current	$I_{SC}$ [A]	8.24	8.31	8.37
Efficiency	$\eta$ [%]	16.0	16.3	16.5

Electrical values measured under nominal operating conditions of cells: 800 W/m<sup>2</sup>; 20°C; AM 1.5; wind 1 m/s; Module temperature NMOT: 45,5°C

ELECTRICAL DATA (LOW IRRADIANCE)		S83T320	S83T325	S83T330
Power	$P_{MPP}$ [W]	62	63	64

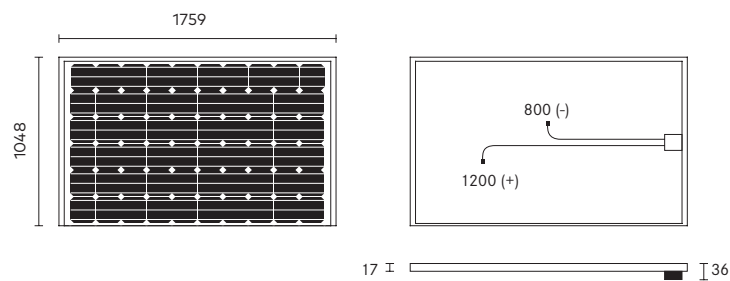
Electrical values measured under: 200 W/m<sup>2</sup>; 25°C; AM 1,5

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	Genuine MC4 (PV-KST4-EVO)
Bypass diodes	3

CLASSIFICATION	S83T320	S83T325	S83T330
Classification range (positive classification) [W]	0/+4.99	0/+4.99	0/+2.99

## 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

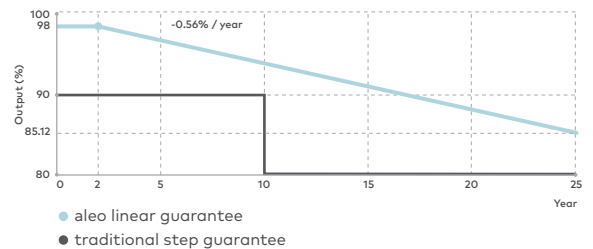
CERTIFICATIONS AND WARRANTY	
Product Guarantee	25 years
Power Guarantee	25 years – linear
Fire Resistance	Class C
Protection Against Electric Shock	II
Certifications	§ IEC 61215, IEC 61730

LOADS		
Max. module pressure load (Testload)	[Pa]	5400 <sup>1</sup>
Max. module pressure load (Designload) <sup>2</sup>	[Pa]	3600 <sup>1</sup>
Max. module suction load (Testload)	[Pa]	2400 <sup>1</sup>
Max. module suction load (Designload) <sup>2</sup>	[Pa]	1600 <sup>1</sup>
Max. system voltage	[V <sub>DC</sub> ]	1000
Reverse current load	$I_r$ [A]	20

Mechanical load acc. to IEC/EN 61215:2016  
<sup>1</sup> Please observe the mounting conditions in the installation manual  
<sup>2</sup> 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

## 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.de  
 www.aleo-solar.com

©aleo solar GmbH 11/2019

**aleo**