

S79 Sol

305 - 315W



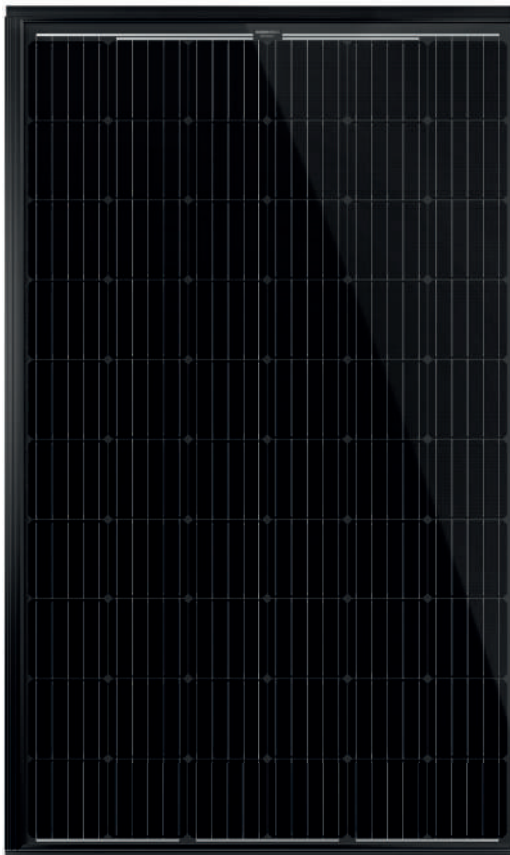
QUALITY SIGNED AND SEALED



ALL BLACK FINISHING BIPV SOLUTION

98% OF NOMINAL POWER GUARANTEED
IN THE FIRST TWO YEARS

FULL PACKAGE: MODULES + FLASHINGS



15 YEARS PRODUCT GUARANTEE
UPGRADEABLE TO 25 YEARS AS A
PREMIUM OPTION



CRAFTED WITH PASSION



25 YEARS LINEAR PERFORMANCE
WARRANTY



HIGH RELIABILITY

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

aleo solar module S79 sol

ELECTRICAL DATA (STC)		S79T305	S79T310	S79T315
Rated power	P_{MPP} [W]	305	310	315
Rated voltage	V_{MPP} [V]	32.5	32.7	33.0
Rated current	I_{MPP} [A]	9.38	9.47	9.56
Open-circuit voltage	V_{OC} [V]	39.6	39.8	40.0
Short-circuit current	I_{SC} [A]	9.89	9.98	10.06
Efficiency	η [%]	17.6	17.9	18.2

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

ELECTRICAL DATA (NMOT)		S79T305	S79T310	S79T315
Power	P_{MPP} [W]	225	229	233
Voltage	V_{MPP} [V]	30.1	30.3	30.6
Current	I_{MPP} [A]	7.49	7.55	7.62
Open-circuit voltage	V_{OC} [V]	37.1	37.2	37.4
Short-circuit current	I_{SC} [A]	7.97	8.04	8.10
Efficiency	η [%]	16.3	16.5	16.8

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)		S79T305	S79T310	S79T315
Power	P_{MPP} [W]	59	60	61

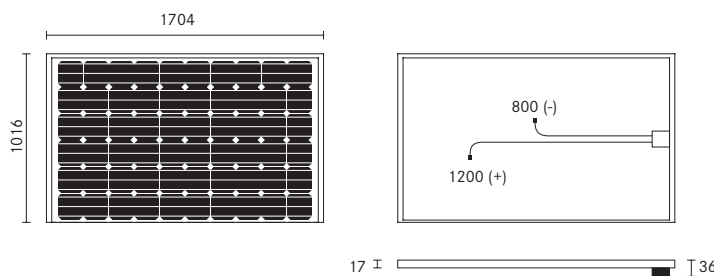
Electrical values measured under: 200 W/m²; 25°C; AM 1,5

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

CLASSIFICATION	
Classification range (positive classification)	[W] 0/+4.99

DIMENSIONS [mm]



BASIC MODULE DATA	
Length x width x height	[mm] 1704 x 1016 x 36 (grid dimension 1686 x 984)
Weight	[kg] 19
Number of cells	60
Cell size	[mm] 156.75 x 156.75
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

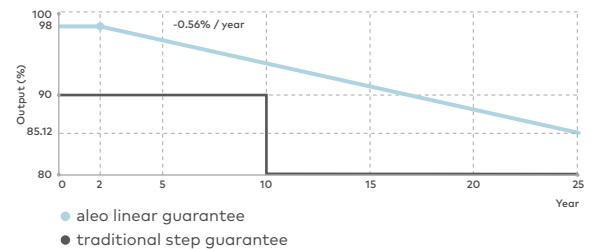
CERTIFICATIONS AND WARRANTY	
Product Guarantee	15 years, optional 25 years
Power Guarantee	25 years – linear
Fire Resistance	Class C
Protection Against Electric Shock	II
Certifications	§ IEC 61215:2016, IEC 61730:2016

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

Tolerance of P_{MPP} under STC -3/+3% |
 Tolerance 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 06/2019

aleo