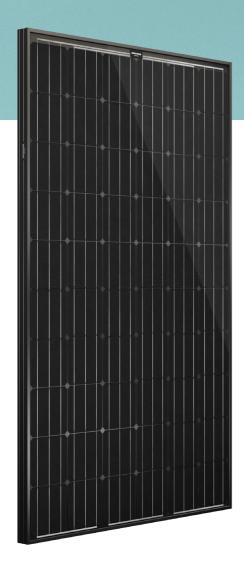


More powerful elegance.



280-290 W



QUALITY SIGNED AND SEALED





finishing

All black 98% of nominal power guaranteed

the first two years

Up to +5% more yield

over conventional technologies*



PID FREE

PID tested with excellent results under the harshest conditions



25 YEARS LINEAR PERFORMANCE WARRANTY



12 YEARS PRODUCT WARRANTY



CRAFTED WITH PASSION



CONSTANTLY HIGH CELL QUALITY

through strict quality examinations by highresolution electroluminescence and infraredmeasurements

* results following a one year field study realized independently by the Politecnico Milano



aleo solar module S79

ELECTRICAL DATA (STC)			S79_280	S79_285	S79_290
Rated power	P_{MPP}	[W]	280	285	290
Rated voltage	U_{MPP}	[V]	31.2	31.3	31.3
Rated current	I _{MPP}	[A]	8.97	9.10	9.25
Open-circuit voltage	U_{oc}	[V]	39.2	39.2	39.3
Short-circuit current	I _{sc}	[A]	9.67	9.73	9.80
Efficiency	n	[%]	17.0	17.3	17.6

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

BASIC MODULE DATA		
Length x width x height	[mm]	1660 x 990 x 50
Weight	[kg]	20
Number of cells		60
Cell size	[mm]	156.75 x 156.75
Cell material		Monocrystalline Si
Front sheet		Solar glass (TSG)
Back sheet		Polymer sheet, black
Frame material		Al alloy, black

ELECTRICAL DATA (NOCT)			S79_280	S79_285	S79_290
Power	P_{MPP}	[W]	204	207	211
Voltage	U_{MPP}	[V]	28.2	28.3	28.3
Current	I _{MPP}	[A]	7.21	7.33	7.45
Open-circuit voltage	U_{oc}	[V]	35.9	36.0	36.0
Short-circuit current	$I_{\rm sc}$	[A]	7.83	7.88	7.93
Efficiency	n	[%]	15.5	15.7	16.0

Electrical values measured under nominal operating conditions of cells: 800 W/m 2 ; 20 $^\circ$ C; AM 1.5; wind 1 m/s

NOCT: 49°C (nominal operating cell temperature)

TEMPERATURE COEFFICIENTS

CERTIFICATIONS AND WARRANTY				
12 years				
25 years – Linear				
Class C				
II				
§ IEC 61215, IEC 61730-1/-2				
§ IEC 62716 – Ammonia Resistance				
§ IEC 61701 – Salt mist Resistance				
§ IEC 62804 - PID Resistance				
§ MCS 010; MCS 005				

LOADS			
Max. module pressure load		[Pa]	5400*
Max. module suction load		[Pa]	5400*
Max. system voltage		$[V_{DC}]$	1000
Reverse current load	I _R	[A]	20

Mechanical load acc. to IEC/EN 61215

 * Please observe the mounting conditions in the installation manual

Temperature coefficient I _{sc}	a (I _{sc})	[%/K]	+0.05	
Temperature coefficient \mathbf{U}_{oc}	ß (U _{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		

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

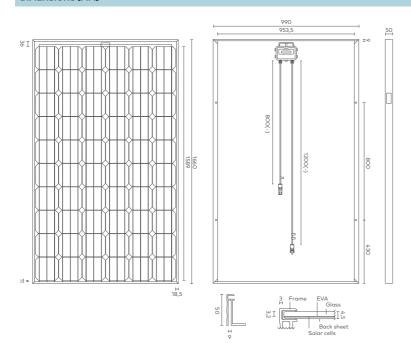
Measurement tolerance of P_{MPP} under STC -3/+3% | Accuracy of other electrical values -10/+10% Efficiency relating to gross module area

ADDITIONAL ELECTRICAL DATA

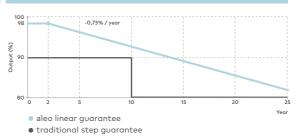
Reduction of STC efficiency from 1000 W/m 2 [%] < 2 to 200 W/m 2 rel.

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

DIMENSIONS [MM]



PERFORMANCE GUARANTEE



PLEASE CONTACT YOUR AUTHORISED ALEO DEALER