

Small power packet for more flexibility



S25 230 - 240 W



QUALITY SIGNED AND SEALED







48

cells

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



CRAFTED WITH PASSION



12 YEARS PRODUCT WARRANTY



CONSTANTLY HIGH CELL QUALITY

through strict quality examinations by highresolution electroluminescence and infraredmeasurements

25 YEARS LINEAR PERFORMANCE WARRANTY



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



aleo solar module S25

ELECTRICAL DATA (STC)			S25_230	S25_235	S25_240
Rated power	P _{MPP}	[W]	230	235	240
Rated voltage	$V_{\rm MPP}$	[V]	25.1	25.2	25.3
Rated current	I _{MPP}	[A]	9.16	9.37	9.51
Open-circuit voltage	V_{oc}	[V]	31.4	31.5	31.5
Short-circuit current	I _{sc}	[A]	9.76	9.83	9.90
Efficiency	n	[%]	17.3	17.6	18.0

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

BASIC MODULE DATA		
Length x width x height	[mm]	1345 x 990 x 50
Weight	[kg]	16
Number of cells		48
Cell size	[mm]	156.75 x 156.75
Cell material		Monocrystalline Si
Number bus bars		3/4/5
Front sheet		Solar glass (TSG)
Back sheet		Polymer sheet, white
Frame material		Al alloy, silver

ELECTRICAL DATA (NOCT)			S25_230	S25_235	S25_240
Power	P_{MPP}	[W]	168	173	178
Voltage	V_{MPP}	[V]	22.8	22.9	23.1
Current	I_{MPP}	[A]	7.39	7.56	7.72
Open-circuit voltage	V_{oc}	[V]	28.9	29.0	29.0
Short-circuit current	I _{sc}	[A]	7.90	7.96	8.02
Efficiency	n	[%]	15.8	16.2	16.7

Electrical values measured under nominal operating conditions of cells: 800 W/m2; 20°C; AM 1.5; wind 1 m/s $\,$

NOCT: 48°C (nominal operating cell temperature)

TEMPERATURE COEFFICIENTS

CERTIFICATIONS AND WARRANTY				
Product Guarantee	12 years			
Power Guarantee	25 years – Linear			
Fire Resistance	Class C			
Protection Against Electric Shock	II			
Certifications	§ 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 $V_{\rm oc}$	ß (V _{oc})	[%/K]	-0.29	
Temperature coefficient P_{MPP}	Y (P _{MPP})	[%/K]	-0.40	
BASIC DATA JUNCTION BOX				
BASIC DATA JONE HON 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		
Measurement tolerance of P under STC -3/+3% Accuracy of other electrical values -10/+10%				

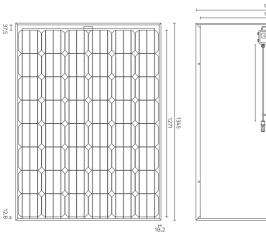
Measurement tolerance of P $_{\rm MPP}$ under STC -3/+3% | Accuracy of other electrical values -10/+10% Efficiency relating to gross module area

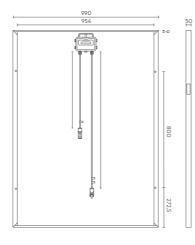
ADDITIONAL ELECTRICAL DATA

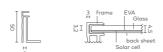
Reduction of STC efficiency from 1000 W/m 2 [%] < 2 to 200 W/m 2 rel.

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

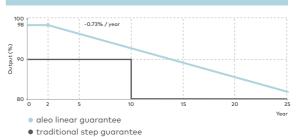
DIMENSIONS [MM]







PERFORMANCE GUARANTEE



PLEASE CONTACT YOUR AUTHORISED ALEO DEALER