EN | EN | DE 245-265 W

Solar module aleo

S18





Strong performance

Due to the unique combination of components, the high-efficiency modules from aleo solar are particularly powerful. With the high efficiency, the aleo S18 offers maximum performance compared to the small overall area required. This also means: less effort and less material for installation. This increase in efficiency and the long-term high energy yields of aleo S18 ensure efficient operation of your photovoltaic system. The quality of aleo modules is continuously tested and confirmed by independent institutes. aleo modules are sorted with a positive power classification. The performance is guaranteed by aleo solar for 25 years, the product guarantee is for 10 years.





High Efficiency

aleo

Efficient use of sunlight due to unique combination of module components



Known worldwide and certified

VDE (IEC 61215 Ed. 2, EC 61730-1 Ed. 1 and IEC 61730-2 Ed. 1), Clean Energy Council (approved PV module)

Our modules - Quality signed and sealed



Contact: aleo solar | Marius-Eriksen-Straße 1 | 17291 Prenzlau | Germany www.aleo-solar.com

Solar module aleo S18

Electrical data (STC)			S18J245	S18J250	S18J255	S18J260	S18J265
Rated power	P _{MPP}	[W]	245	250	255	260	265
Rated voltage	V	[V]	30.2	30.3	30.4	30.5	30.7
Rated current	I _{MPP}	[A]	8.11	8.24	8.38	8.51	8.64
Open-circuit voltage	V _{oc}	[V]	37.5	37.5	37.6	37.7	37.7
Short-circuit current	I _{sc}	[A]	8.63	8.76	8.88	9.01	9.14
Efficiency	η	[%]	14.9	15.2	15.5	15.8	16.1

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

Electrical data (NOCT)		S18J245	S18J250	J250 S18J255		S18J265	
Power	P _{MPP}	[W]	179	183	187	190	194
Voltage	V _{MPP}	[V]	27.3	27.4	27.5	27.6	27.7
Current	I _{MPP}	[A]	6.56	6.67	6.78	6.89	7.00
Open-circuit voltage	V _{oc}	[V]	34.5	34.5	34.6	34.6	34.7
Short-circuit current	I _{sc}	[A]	7.02	7.12	7.22	7.33	7.43
Efficiency	η	[%]	13.6	13.9	14.2	14.5	14.7

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)

NUC1. 40	C (nonninai	operating	Cell	temperature	7,

Additional electrical data		
Reduction of STC efficiency from 1000 W/m ² to 200 W/m ²	[%] rel.	< 4
Classification range (positive classification)	[W]	0/+4.99

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]	15

Mechanical load acc. to IEC/EN 61215

Temperature coefficients						
Temperature coefficient I_{sc}	α (I _{sc})	[%/K]	+0.04			
Temperature coefficient V_{oc}	β (V _{oc})	[%/K]	-0.31			
Temperature coefficient P _{MPP}	γ (P _{MPP})	[%/K]	-0.43			

Cell size	[mm ²]	156 x 156
Cell material		Polycrystalline Si
Front sheet		Solar glass (TSG)
Back sheet		Polymer sheet
Frame material		Al alloy
Basic data junction box		
Length x width x height	[mm³]	148 x 123 x 28
IP class		IP65
Cable length	[mm]	1200 (+), 800 (-)
Connectors		PV-JM601

20

60

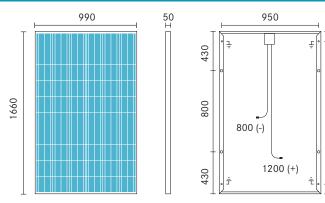
[mm³]

[kg]

1660 x 990 x 50

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

Dimensions [mm]



3

our authorised aleo dealer

Detailed information about our warranties is available on our website | Subject to change without notice | Errors and omissions excepted | EN | EN | DE | 07/2014 | S18J.43 245-265 W © aleo solar GmbH | Gewerbegebiet Nord | Marius-Eriksen-Strasse 1 | 17291 Prenzlau | Germany

1460

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	IP class	
).04	Cable length	[mm]
.31	Connectors	
.43	Bypass diodes	
ical values -10/+10% Ef	ficiency relating to gross module a	area
	Pleas	e contact y
±100 100		
0		

Basic module data Length x width x height

Number of cells

Weight