

aleo

PHOTOVOLTAIC SAFETY GLASS FOR POWERFUL AESTHETIC ARCHITECTURE

Elegante

190 W

QUALITY SIGNED AND SEALED



Deutsches
Institut
für
Bautechnik **DIBt**

40

cells

950x1600 mm

with 4+4 mm glass thickness

BIPV

module



PID FREE

PID tested with excellent results
under the harshest conditions



CRAFTED WITH PASSION



**15 YEARS PRODUCT GUARANTEE
UPGRADEABLE TO 30 YEARS AS A
PREMIUM OPTION**



HIGH RELIABILITY

all modules are checked with high
resolution electroluminescence and
infrared measurements.



**30 YEARS LINEAR PERFORMANCE
WARRANTY**



Made in Germany

aleo solar PV-safety glass Elegante

ELECTRICAL DATA (STC)		G40_190
Rated power	P_{MPP} [W]	190
Rated voltage	V_{MPP} [V]	21.2
Rated current	I_{MPP} [A]	9.11
Open-circuit voltage	V_{OC} [V]	26.5
Short-circuit current	I_{SC} [A]	9.60
Efficiency	η [%]	12.5

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

ELECTRICAL DATA (NOCT)		G40_190
Power	P_{MPP} [W]	139
Voltage	V_{MPP} [V]	18.4
Current	I_{MPP} [A]	7.59
Open-circuit voltage	V_{OC} [V]	23.9
Short-circuit current	I_{SC} [A]	7.97
Efficiency	η [%]	11.4

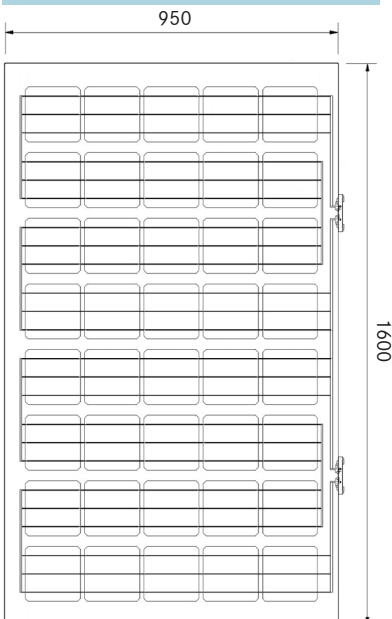
Electrical values measured under nominal operating conditions of cells: 800 W/m²; 20°C; AM 1.5; wind 1 m/s
NOCT: 48°C (nominal operating cell temperature)

BASIC DATA JUNCTION BOX	
Length x width x height	[mm] 105.8 x 15.5 x 12.5
IP class	IP67
Cable length	[mm] 820
Connectors	2 Tyco wing edge
Bypass diodes	2 (one per junction box)

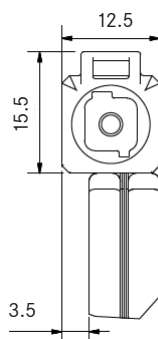
TEMPERATURE COEFFICIENTS			
Temperature coefficient I_{SC}	$\alpha (I_{SC})$	[%/K]	+0.05
Temperature coefficient V_{OC}	$\beta (V_{OC})$	[%/K]	-0.29
Temperature coefficient P_{MPP}	$\gamma (P_{MPP})$	[%/K]	-0.40

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

DIMENSIONS [MM]



DIMENSIONS JUNCTION BOX [MM]



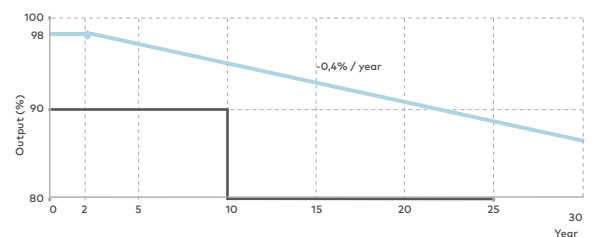
BASIC DATA	
Length x width x height	[mm] 950 x 1600 x 9 (12.5 mm height junction box)
Weight	[kg] 31.5
Number of cells	40
Cell size	[mm] 156.75 x 156.75
Cell material	Monocrystalline Si
Front glass	4.0 mm Solar glass (TSG)
Back glass	4.0 mm Solar glass (TSG)

CERTIFICATIONS AND WARRANTY	
Product Guarantee	15 years, optional 30 years
Power Guarantee	30 years
Fire Resistance	Class C
Protection Against Electric Shock	II
Certifications	§ IEC 61215, IEC 61730-1/-2 § IEC 62804 – PID Resistance architectural certification from DIBt (abZ no. Z-70.3-232)

LOADS	
Max. pressure load	[Pa] 7500*
Max. 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	

ADDITIONAL ELECTRICAL DATA		
Reduction of STC efficiency from 1000 W/m ² to 200 W/m ²	[%] rel.	< 2
Classification range (positive classification)	[W]	0/+4.99

PERFORMANCE GUARANTEE



PLEASE CONTACT YOUR AUTHORISED ALEO DEALER

Detailed information about our warranties is available on our website | Subject to change without notice | Errors and omissions excepted |

EN | 01/2018 | ELEGANTE 190 W

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