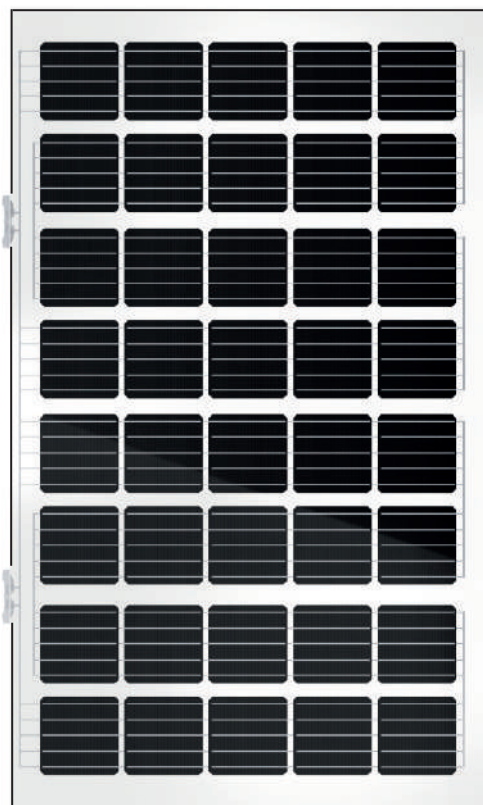
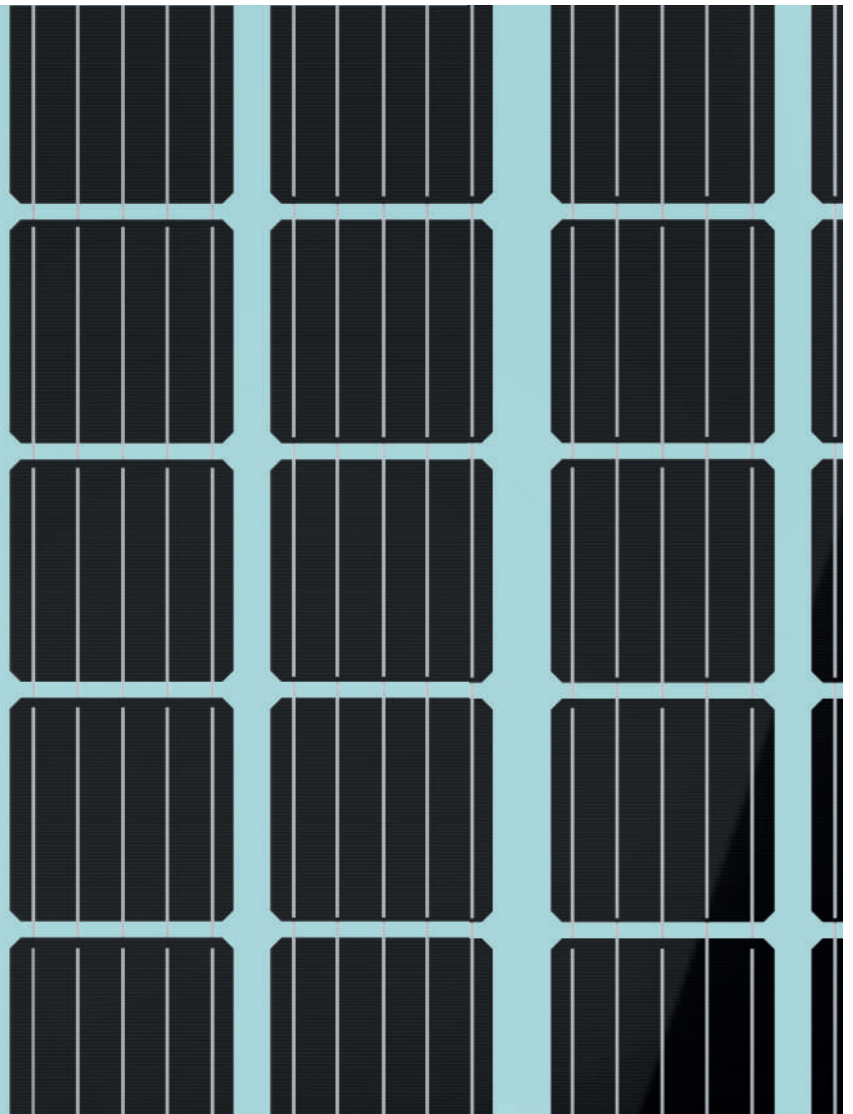


# PV-Insulating Glass

## 200 W



### GERMAN ENGINEERING AND MANUFACTURING

Incorporated in 2001, aleo is recognized as one of the most trustworthy manufacturer of solar panels. We produce all our products in our certified production plant in Prenzlau, Germany.

### THE BEST GUARANTEE PACKAGE



30 Years Product Guarantee



30 Years linear Performance Warranty

98% of nominal power guaranteed in the first two years

### FOR ARCHITECTURAL APPLICATIONS AS

- Facade element
- window glazing
- Indoor roofing

### OUR QUALITY IS CERTIFIED

This module is certified according to the latest technical building rules through the German technical authority DIBt (Deutsches Institut für Bautechnik).

Deutsches  
Institut  
für  
Bautechnik



# aleo solar PV-Insulating Glass

## BASIC DATA PV-INSULATING GLASS

Length x width x height	[mm]	1600 x 950 x 33.8
Weight	[kg]	54
Number of cells		40
Cell size	[mm]	156,75 x 156,75
Cell material		Monocrystalline Si, PERC
Front glass		PV module Elegante (4,0 + 4,0 mm TSG with AR coating)
Space in between		Argon gas
Back glass		4 + 4 mm laminated safety glass
U-value	[W/(m²K)]	1.1 (according standard for heatsaving glazing)

## ELECTRICAL DATA (PV-MODUL) (STC)

200 W

Rated power	$P_{MPP}$	[W]	200
Rated voltage	$V_{MPP}$	[V]	21.7
Rated current	$I_{MPP}$	[A]	9.22
Open-circuit voltage	$V_{OC}$	[V]	26.8
Short-circuit current	$I_{SC}$	[A]	9.71
Efficiency	$\eta$	[%]	13.2

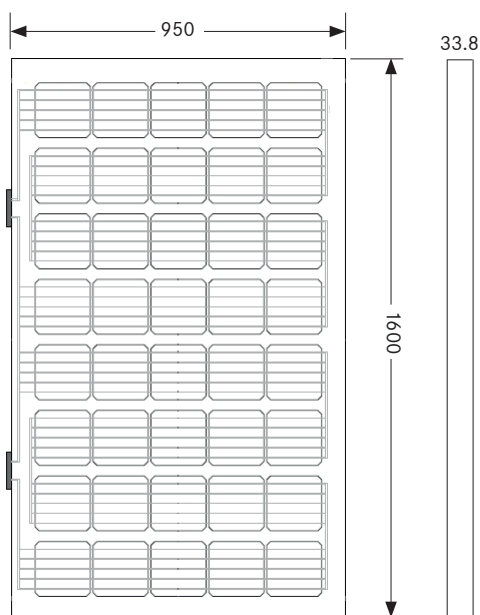
Electrical values measured under standard test conditions (STC):  
1000 W/m²; 25°C; AM 1.5

## ADDITIONAL ELECTRICAL DATA

Reduction of STC efficiency from 1000 W/m² to 200 W/m²	[%] rel.	< 2
Classification range (positive classification)	[W]	0/+9.99

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 PV-INSULATING GLASS [mm]



## 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 (PV MODULE)

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

## CERTIFICATIONS AND WARRANTY (PV MODULE)

Product Guarantee	30 years
Power Guarantee	30 years
Fire Resistance	Class C
Protection Against Electric Shock	II
Certifications	architectural certification from DIBt

## PERFORMANCE GUARANTEE (PV MODULE)

