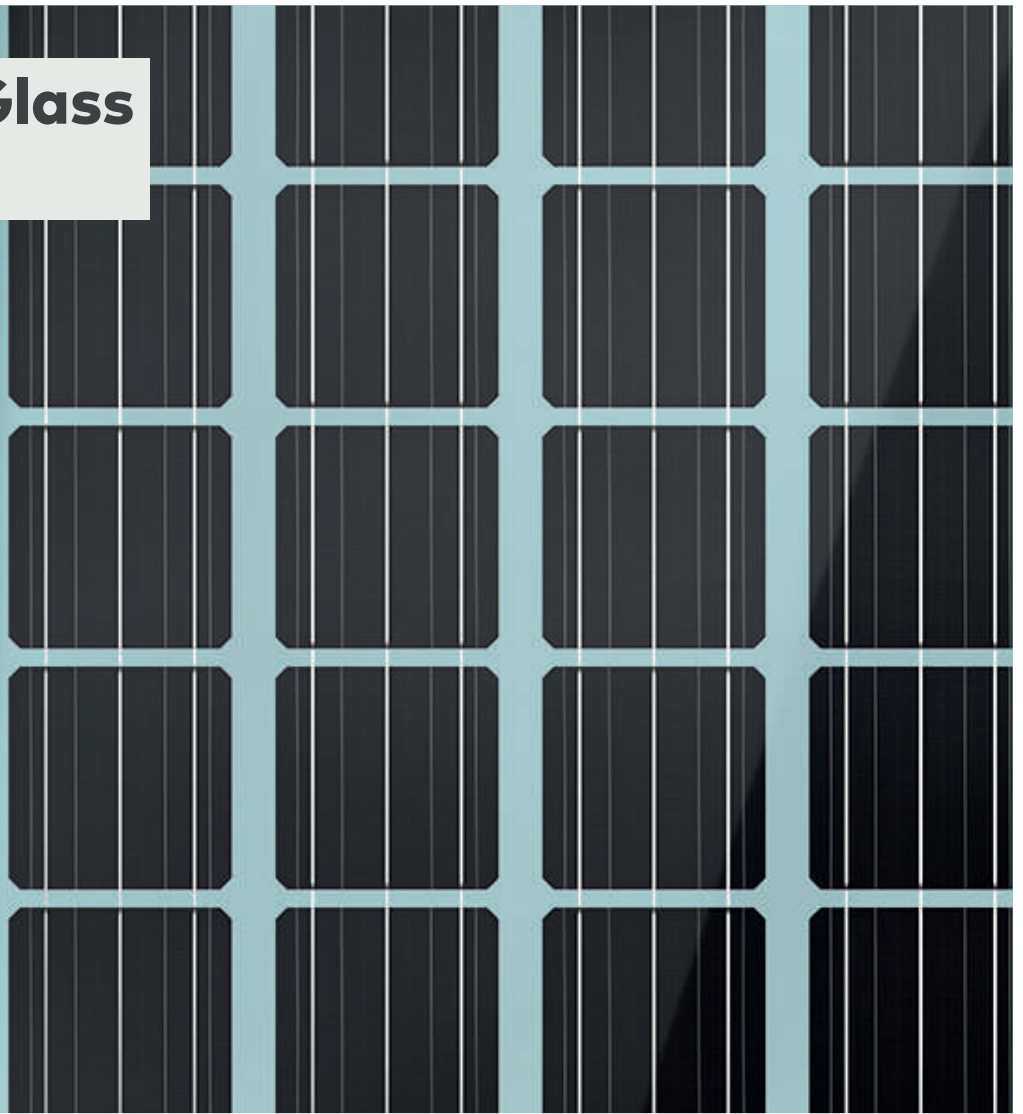


# PV-Insulating Glass

200 W



Deutsches  
Institut  
für  
Bautechnik



QUALITY SIGNED AND SEALED



## PHOTOVOLTAIC INSULATING GLASS

FOR ARCHITECTURAL APPLICATIONS SUCH AS

- FACADE ELEMENT
- WINDOW GLAZING
- INDOOR ROOFING

40 CELLS – 28% TRANSPARENCY



### PID FREE

PID tested with excellent results under the harshest conditions



CRAFTED WITH PASSION



15 YEARS PRODUCT GUARANTEE FOR THE PV-ELEMENT  
UPGRADEABLE TO 30 YEARS AS A PREMIUM OPTION



### HIGH RELIABILITY

all modules are checked with high resolution electroluminescence measurements.



30 YEARS LINEAR PERFORMANCE WARRANTY

# aleo solar PV-Insulating Glass

## BASIC DATA PV-INSULATING GLASS

|                         |           |  |
|-------------------------|-----------|--|
| Length x width x height | [mm]      | 1600 x 950 x 33  |
| 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<br>(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

## 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) |

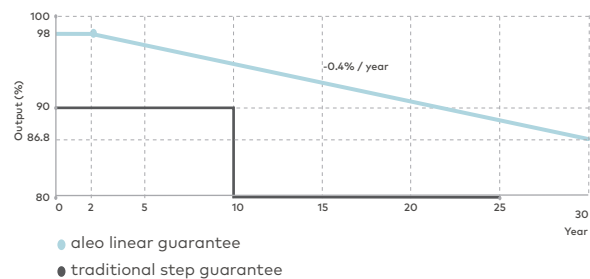
## TEMPERATURE COEFFICIENTS (PV MODULE)

|                                   |                    |       |       |
|-----------------------------------|--------------------|-------|-------|
| 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                 | 15 years, optional 30 years  |
| Power Guarantee                   | 30 years   |
| Fire Resistance                   | Class C  |
| Protection Against Electric Shock | II   |
| Certifications                    | § IEC 61730<br>§ IEC 62804 – PID Resistance<br>architectural certification from DIBT<br>(abZ no. Z-70.3-232) |

## PERFORMANCE GUARANTEE (PV MODUL)



## DIMENSIONS PV-INSULATING GLASS [mm]

