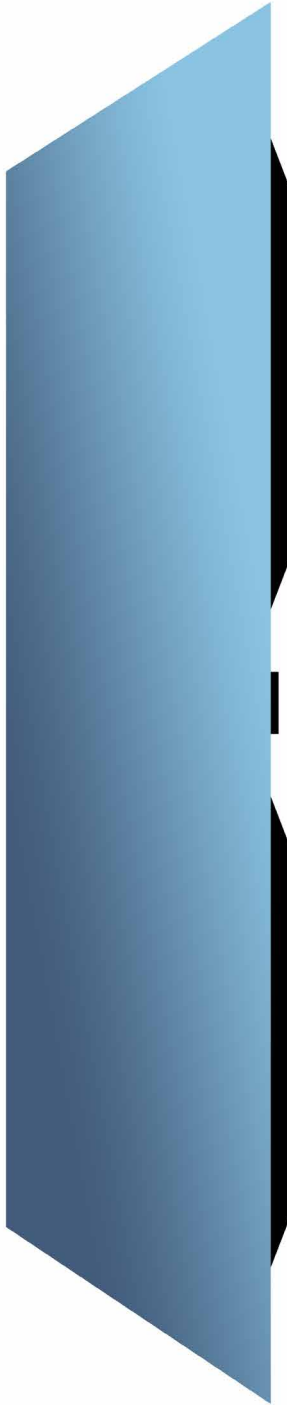


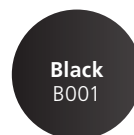
SKALA

Empower your facade



SKALA

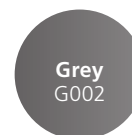
- is a glass-glass module without disturbing frame
- has an opaque black color as standard version
- does not need mechanical clamping on the front glass due to its backrail system fitting to all common facade substructures
- is most suitable for rainscreen ventilated facades
- can be combined with a variety of other facade materials
- can be installed in portrait and landscape orientation (depends on regional building regulations)
- has the general technical building approval (abZ) from Deutsches Institut für Bautechnik (DIBt)
- is developed and produced in Germany – approved according to all relevant certifications
- is available in different colors and lengths:



Black
B001



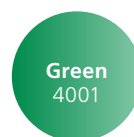
Anthracite
G001



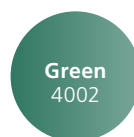
Grey
G002



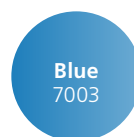
Light Grey
G004



Green
4001



Green
4002



Blue
7003



Gold
3002



Bronze
3001



Valid for product variant 4.6

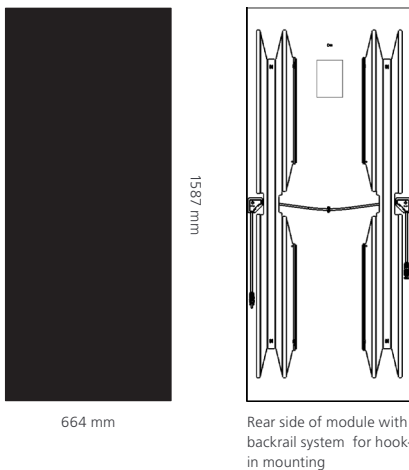
MECHANICAL SPECIFICATION

SKALA	Value
Dimensions	1587 mm x 664 mm
Thickness	38 mm
Weight	17 kg
Cell type	CIGS
Frame	none
Front cover	3.2 mm single-pane safety glass
Design load ¹⁾ (safety factor 1.5)	upward 3300 Pa downward 3500 Pa
Junction box protection class	IP67
Dimensions of junction box	60 mm x 60 mm x 11.5 mm
Cable lengths (⊖ plug ⊕ socket)	200 mm 320 mm
Cable cross section	2.5 mm ² minimal bending radius: 6x outer diameter
Connector type	H4
Fire rating (roof)	Class C (ANSI/UL 790:2004)
Classification of fire behavior (building envelope)	B1 (DIN 4102-1:1998-05) ²⁾ B - s2, d0 (DIN EN 13501-1:2019-05) ³⁾

- 1) according to IEC 61730, for standard SKALA mounting
 2) valid in Germany
 3) valid for all SKALA color codes excluding B001, B001: can be ordered optionally



- Design qualification and type approval: IEC 61215:2016
- Safety qualification: IEC 61730:2016
- Salt mist corrosion: IEC 61701
- German general building approval (abZ): Z-70.1-224



664 mm

1587 mm

Rear side of module with backrail system for hook-in mounting

ELECTRICAL SPECIFICATION

Data measured under standard test conditions (STC) for full size PV modules:

SKALA color code	3002 4001 G004	3001 4002 7003	B001 G001
Nominal power P_{nom}^*	120 W	130 W	140 W
Sorting	-0/+10 W		
Module efficiency η	11.4 %	12.3 %	13.3 %
Aperture efficiency η	12.6 %	13.7 %	14.8 %
Open circuit voltage V_{oc}^*	89.2 V	89.3 V	89.4 V
Short circuit current I_{sc}^*	2.00 A	2.14 A	2.28 A
Voltage at mpp V_{mpp}^*	69.4 V	69.4 V	69.4 V
Current at mpp I_{mpp}^*	1.73 A	1.87 A	2.02 A
Max. over-current protection I_r	4.0 A		
Max. system voltage V_{sys}	1000 V		

STC values are valid after pretreatment with light according to IEC 61215.

STC: Irradiance 1000 W/m², module temperature 25 °C, spectral light distribution according to atmospheric mass (AM) 1.5.

* Tolerance of manufacturing: -5 %/+10 %.

Temperature coefficients:

SKALA	Value
Temperature coefficient P_{nom}	-0.39 %/°C
Temperature coefficient V_{oc}	-230 mV/°C
Temperature coefficient I_{sc}	0 mA/°C

Data measured at low light intensity:

The relative reduction of the module efficiency at a light intensity of 200 W/m² is 6 %, compared to 1000 W/m² at 25° C module temperature and spectrum AM 1.5. At 500 W/m², the relative increase of module efficiency is +1 %.

As a result of ongoing research and product improvements, the specifications in this product data sheet are subject to changes without prior publication. This data sheet is not allowed to be used for deriving any rights, and AVANCIS does not accept any liability with regard to and resulting from the use of information contained herein. Installation equipment is not supplied with the product.

Standard packaging:

Packaging information	
Size including pallet (LxWxH)	1650 mm x 800 mm x 1000 mm
Approx. gross weight (full box)	375 kg
Modules per box	20
Maximum no. of stacked boxes	1 on 1 (batch of 2)
Max. truck loading	48 (3x8+3x8)
Max. 40 ft container load (24 t)	28 (1x14+1x14)

Variation of packaging size on individual request



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