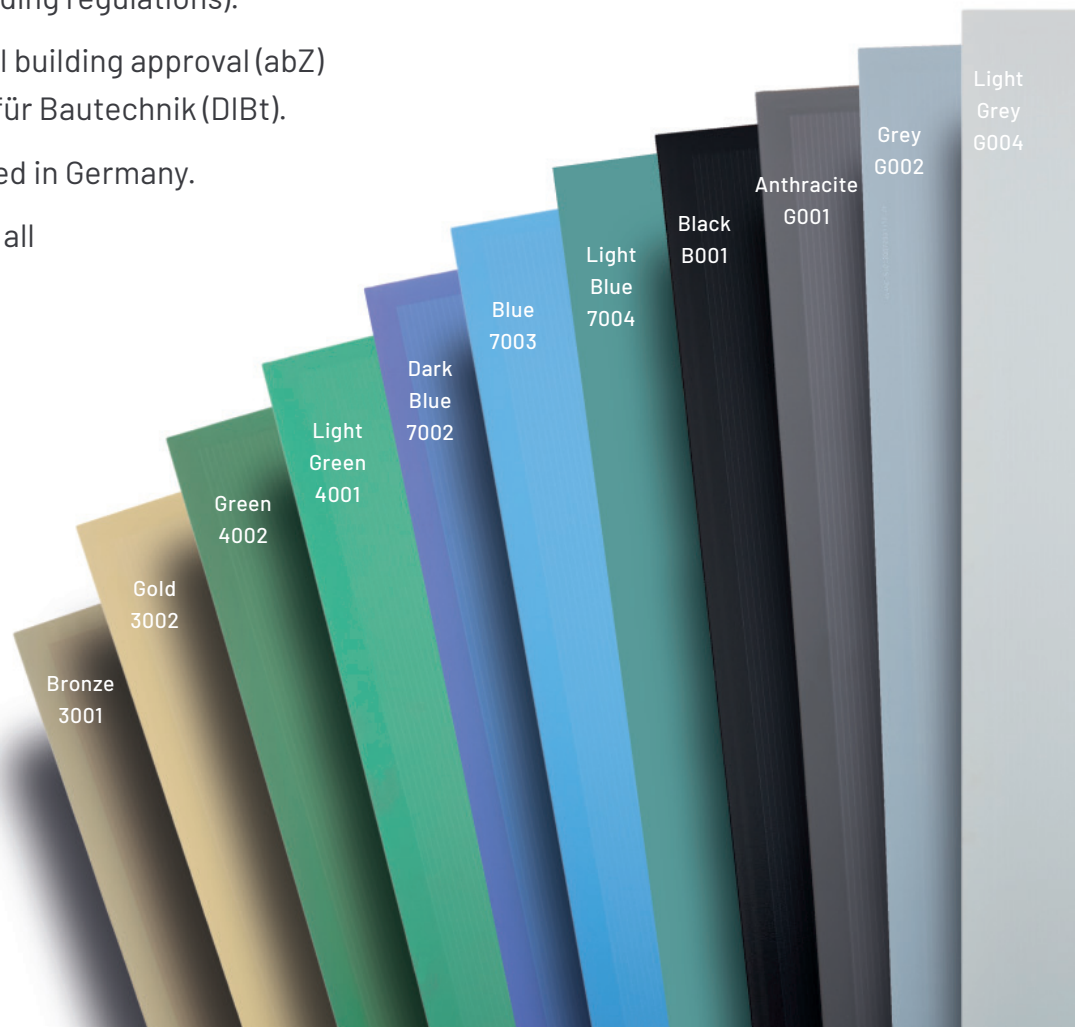


*Empower
your facade*

SKALA

SKALA - as diverse as your ideas

- Is a thin-film photovoltaic 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.
- Is approved according to all relevant certifications.
- Is available in different colors and lengths.



Brand of

AVANCIS 



ELECTRICAL SPECIFICATION

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

SKALA xxx ¹⁾ A0BB ²⁾	SKALA 120	SKALA 125	SKALA 130	SKALA 135	SKALA 140	SKALA 145	SKALA 150
Nominal power P_{nom} ³⁾	120 W	125 W	130 W	135 W	140 W	145 W	150 W
Sorting	-0/+5 W						
Module efficiency η	11.4%	11.9%	12.3%	12.8%	13.3%	13.8%	14,2%
Aperture efficiency η	12.6%	13.2%	13.7%	14.2%	14.8%	15.3%	15,7%
Open circuit voltage V_{oc} ⁴⁾	89.2 V	89.2 V	89.3 V	89.3 V	89.4 V	89.4 V	89.5 V
Short circuit current I_{sc} ⁴⁾	2.00 A	2.07 A	2.14 A	2.21 A	2.28 A	2.35 A	2.41 A
Voltage at mpp V_{mpp} ⁴⁾	69.4 V	69.4 V	69.4 V	69.4 V	69.4 V	69.4 V	70.4 V
Current at mpp I_{mpp} ⁴⁾	1.73 A	1.80 A	1.87 A	1.95 A	2.02 A	2.09 A	2.13 A
Max. over-current protection I_R	4.0 A						
Max. system voltage V_{sys}	1000 V						

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

STC: Irradiance 1000 W/m², module temperature 25 °C, spectral light distribution according to atmospheric mass (AM) 1.5.¹⁾ „xxx“ corresponds to power class in Wp (in steps of 5 W)²⁾ Color code⁴⁾ Tolerance of manufacturing: ±5%

Data measured at nominal module operating temperature (NMOT)* and AM 1.5:

	SKALA 120	SKALA 125	SKALA 130	SKALA 135	SKALA 140	SKALA 145	SKALA 150
NMOT	40 °C						
Nominal power P_{nom}	90 W	94 W	97 W	101 W	105 W	109 W	113 W
Open circuit voltage V_{oc}	85 V	85 V	85 V	85 V	86 V	86 V	86 V
Short circuit current I_{sc}	1.60 A	1.66 A	1.71 A	1.77 A	1.82 A	1.88 A	1.93 A
Voltage at mpp V_{mpp}	66 V	66 V	66 V	66 V	66 V	66 V	66 V

* NMOT: Module operating temperature at light intensity of 800 W/m² on the module area, air temperature 20 °C, wind speed 1m/s and operating at mpp.

Temperature coefficient	Value
Temperature coefficient P_{nom}	-0.35% / °C
Temperature coefficient V_{oc}	-0.26% / °C
Temperature coefficient I_{sc}	0% / °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%.

PERFORMANCE WARRANTY

Performance after 10 years: 90% of minimum nominal power
Performance after 25 years: 80% of minimum nominal power

For detailed information see warranty terms and conditions.

SKALA color code (ATBB)	Available classes
B001	SKALA 145, SKALA 150
G001	SKALA 145, SKALA 150
G002	SKALA 135, SKALA 140
G004	SKALA 120, SKALA 125
3001	SKALA 135, SKALA 140
3002	SKALA 125
4001	SKALA 125
4002	SKALA 135
7002	SKALA 135
7003	SKALA 135
7004	SKALA 135





MECHANICAL SPECIFICATION

SKALA	Value
Dimensions	1587 mm × 664 mm
Thickness	38 mm
Weight	17 kg
Cell type	CIGS
Frame	without
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 × 60 mm × 11.5 mm
Cable lengths (⊖ plug ⊕ socket)	200 mm 320 mm
Cable cross section	2.5 mm ² ; minimal bending radius: 6 × outer diameter
Connector type	H4 (Amphenol)
Fire rating (roof)	Class C (ANSI/UL 790:2004)
Classification of fire behavior (building envelope)	B - s2, d0 (DIN EN 13501-1:2019-05) ²⁾

¹⁾according to IEC 61730, for standard SKALA mounting

²⁾valid for all SKALA color codes excluding B001: can be ordered optionally



- Design qualification and type approval: IEC 61215:2016
- Safety qualification: IEC 61730:2016
- German general building approval (abZ): Z-70.1-224
- WEEE number: DE33274866

MADE IN GERMANY

Packaging information (Standard packaging)	
Size including pallet (LxWxH)	1650 mm × 800 mm × 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 (3 × 8 + 3 × 8)
Max. 40 ft container load (24 t)	28 (1 × 14 + 1 × 14)

Variation of packaging size on individual request

PRODUCT WARRANTY

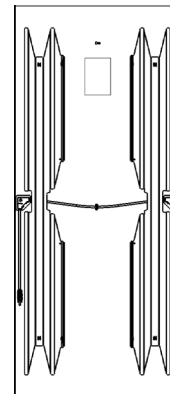
PV modules are free from defects in materials and workmanship under normal application, installation, use and service conditions for a period of 10 years. For detailed information see warranty terms and conditions.

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.



664 mm

1587 mm



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

