

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).



ELECTRICAL SPECIFICATION

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

SKALA xxx ¹⁾ A0BB ¹¹⁾ S	SKALA 145 S	SKALA 150 S
Nominal power Pnom	145 W	150 W
Sorting	-0/+5 W	
Module efficiency η	13.8%	14,2%
Aperture efficiency η	15.3%	15,7%
Open circuit voltage $V_{oc}^{(III)}$	89.4 V	89.5 V
Short circuit current $I_{sc}^{(III)}$	2.35 A	2.41 A
Voltage at mpp $V_{mpp}^{(III)}$	69.4 V	70.4 V
Current at mpp I_mpp ^{III)}	2.09 A	2.13 A
Max. over-current protection $I_{_{\rm R}}$	4.(A
Max. system voltage $\rm V_{_{\rm sys}}$	100	0 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.

 $^{1)}\ _{\!\!\!\!\!\!\!} xxx^{\prime\prime}$ corresponds to power class in Wp (in steps of 5 W)

") Color code

III)Tolerance of manufacturing: ±5%

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

	SKALA 145 S	SKALA 150 S
NMOT	40°C	
Nominal power P _{nom}	109 W	113 W
Open circuit voltage V _{oc}	86 V	86 V
Short circuit current I _{sc}	1.88 A	1.93 A
Voltage at mpp V _{mpp}	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 ${\rm I}_{\rm sc}$	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 S, SKALA 150 S
G001	SKALA 145 S, SKALA 150 S





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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 4400 Pa downward 6000 Pa
Junction box protection class	IP67
Dimensions of junction box	60 mm × 60 mm × 11.5 mm
Cable lengths (\ominus plug \oplus socket)	200 mm 320 mm
Cable cross section	2.5 mm²; 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

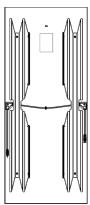
PRODUCT WARRANTY

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



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



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