SKALA Industry

stylish in industrial construction

SK A
L A

KEY FEATURES

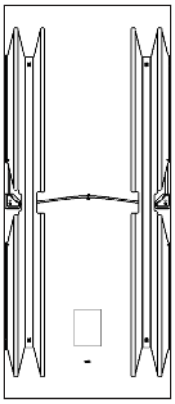
EFFICIENCY

- Photovoltaic module for large-scale industrial application: Design meets efficiency
- Simple mounting via proven in-joint mounting

SIMPLICITY

- Frameless thin-film solar module
- Without mechanical clamping on the front glass
- Elegant black module, unique in design
- Available in standard dimensions:





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

RESISTANCE

- Glass-glass construction ensures high robustness against various weather influences

CERTIFICATION

- Design qualification and type approval: IEC 61215:2016
- Safety qualification: IEC 61730:2016
- Salt mist corrosion: IEC 61701:2011
- German general building approval (abZ): Z-70.1-224
- WEEE number: DE33274866

TÜVRheinland CERTIFIED
IEC 61215
IEC 61730
Regular Production Surveillance
www.tuv.com
ID 1111218737

MADE IN GERMANY



Photo: Olaf Rohl

AVANCIS CNBM

MECHANICAL SPECIFICATION

Characteristic	Value
Dimensions	1,587 mm × 664 mm
Thickness	38 mm
Weight	17 kg
Cell type	CIGS
Frame	without
Front cover	3.2 mm ESG
Design load[1] – Safety factor 1.5	upward 3,300 Pa | downward 3,500 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 mm²; minimal bending radius: 6 × outer diameter
Connector type	H4 (Amphenol)
Fire rating (roof)	Class C [2]
Classification of fire behavior (building envelope)	B1 [3] B-s2, d0 [4]

[1] IEC 61730, for standard SKALA mounting
[2] ANSI/UL 790:2004
[3] DIN 4102-1:1998-05, depending on product characteristics
[4] DIN EN 13501-1:2019-05

ELECTRICAL SPECIFICATION

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

SKALA xxx[I] B901		
Nominal power P_{nom} [II]	150 W	155 W
Sorting	-0/+5 W	
Module efficiency η	14.2%	14.7%
Aperture efficiency η	15.8%	16.2%
Open circuit voltage V_{OC} [II]	89.8 V	90.1 V
Short circuit current I_{SC} [II]	2.44 A	2.45 A
Voltage at mpp V_{mpp} [II]	70.4 V	71.3 V
Current at mpp I_{mpp} [II]	2.13 A	2.17 A
Max. over-current protection I_R	4.0 A	
Max. system voltage V_{sys}	1,000 V	

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

STC: Irradiance 1,000 W/m², module temperature 25 °C, spectral light distribution according to atmospheric mass (AM) 1.5.

[I] „xxx" corresponds to power class in Wp (in steps of 5 W)

[II] Tolerance of manufacturing: ± 5%

Temperature coefficient	Value
Temperature coefficient P_{nom}	-0.35% / °C
Temperature coefficient V_{OC}	-230 mV / °C
Temperature coefficient I_{SC}	0 mA / °C

PACKAGING INFORMATION

Packaging information (Standard packaging)	
Size including pallet (L × W × H)	1,650 mm × 800 mm × 1,000 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)

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 1,000 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.

Edition: February 2024

AVANCIS GmbH
Solarstraße 3, D-04860 Torgau
Telefon +49 (0) 3421 7388-0
sales@avancis.de
www.avancis.de
www.skalafacade.com

Brand of AVANCIS CNBM