SKALA Industry

stylish in industrial construction

SK A
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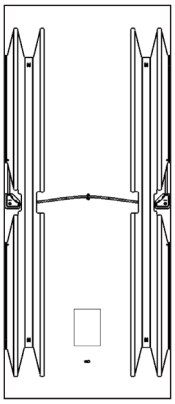
KEY FEATURES

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%.

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