our ideas beyond limits

KEY FEATURES

AESTHETICS

- Frameless thin-film solar module
- Without mechanical clamping on the front glass

SKALA High

- Rear mounting system compatible with all common façade substructures
- Particularly suitable for rear-ventilated curtain wall façades in high-rise buildings
- Matt, very homogeneous surface in terms of color

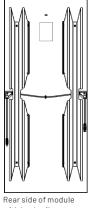
VARIATION

- Can be installed in portrait and landscape format
- Different colors and lengths
- Can be combined with a variety of other façade materials

RESISTANCE

- Glass-glass construction ensures high robustness against various weather influences
- Available in standard dimensions:





with backrail system for hook-in mounting

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



MADE IN GERMANY

AVANCIS .

MECHANICAL SPECIFICATION

Valid for product variant SKALAS 4.9

Characteristic	Value
Dimensions	1,587 mm × 664 mm
Thickness	39 mm
Weight	20 kg
Cell type	CIGS
Frame	without
Front cover	4.0 mm single-pane safety glass
Design load ¹⁾ - Safety factor 1.5	upward 4,400 Pa downward 6,000 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, valid for all SKALA color codes excluding B001(can be ordered optionally)

Anthracit G001

Black B001

Light Bl 7004

ELECTRICAL SPECIFICATION

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

SKALA xxx ⁱ⁾ a0bb ⁱⁱ⁾ S						
Nominal power P _{nom} ^{III)}	125 W	130 W	135 W	140 W	145 W	150 W
Sorting	-0 /+5 W					
Module efficiency η	11.9%	12.3%	12.8%	13.3%	13.8%	14.2%
Aperture efficiency η	13.2%	13.7%	14.2%	14.8%	15.3%	15.8%
Open circuit voltage $V_{\rm oc}^{\rm \ III)}$	89.2 V	89.3 V	89.3 V	89.4 V	89.4 V	89.5 V
Short circuit current $I_{sc}^{(III)}$	2.07 A	2.14 A	2.21 A	2.28 A	2.35 A	2.41 A
Voltage at mpp $V_{mpp}^{(III)}$	69.4 V	69.4 V	69.4 V	69.4 V	69.4 V	69.4 V
Current at mpp $I_{mpp}^{(III)}$	1.80 A	1.87 A	1.95 A	2.02 A	2.09 A	2.16 A
Max. over-current protection ${\rm I}_{\rm \tiny R}$	4.0 A					
Max. system voltage $\mathrm{V}_{_{\mathrm{sys}}}$	1,000 V					

STC values are valid after stabilization 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.

",xxx" corresponds to power class in Wp (in steps of 5 W)

11) Color code

III) Tolerance of manufacturing: ±5%

Temperature coefficient	Value
Temperature coefficient P _{nom}	-0.35%/°C
Temperature coefficient $V_{\rm oc}$	-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/m^2 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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SKALA color code (a0bb)	Available power classes(xxx)
B001	145 W, 150 W
G001	145 W, 150 W
G002	135 W, 140 W
G004	125 W
3001	135 W, 140 W
3002	125 W
4001	125 W
4002	130 W, 135 W
7002	135 W, 140 W
7003	130 W, 135 W
7004*	135 W, 140 W

*Placement in performance class subject to reservation

PACKAGING INFORMATION

For packaging of SKALA-modules of standard size*	
Size including pallet (L × W × H)	1,650 mm × 800 mm × 1,000 mm
Approx. gross weight (full box)	435 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)

 $^{*}\mbox{variation}$ of packaging size for SKALA Short and on individual request



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Brand of