

SKALA

Applies to product variant 4.6

MECHANICAL SPECIFICATIONS

SKALA	Value
External measurements	1587 mm x 664 mm
Thickness	38 mm
Weight	17 kg
Cell type	CIGS
Frame	none
Front cover	3.2 mm tempered glass
Design load ₃ (safety factor 1.5)	high 3300 Pa low 3500 Pa
Electrical panel protection class	IP67
Electrical panel measurements	60 mm x 60 mm x 11.5 mm
Cable length (plug socket) ⊕	200 mm 320 mm
Cable section	2.5 mm ² minimum curve radius: 6x External diameter
Connector type	H4
Fire rated (Roof)	Class C (ANSI/UL 790:2004)
Fire behaviour rating (building envelope)	B1 (DIN 4102-1:1998-05) ₂ B - s2, d0 (DIN EN 13501-1: 2019-05) ₃

- 1) In accordance with IEC 61730, for SKALA standard installation
- 2) Valid for Germany
- 3) Valid for all SKALA colour codes except B001, B001: can be ordered as an option



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



- Design qualification and type approval: IEC 61215:2016
- Safety qualification: IEC 61730:2016
- Salt mist test: IEC 61701
- German General Technical Approval (abZ): Z-70.1-224



1587 mm

664 mm



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ELECTRICAL SPECIFICATIONS

Values measured in standard testing conditions (STC) for FV modules in complete array:

SKALA Colour code	3002 4001 G004	3001 4002 7003	B001 G001
Nominal power P _{nom} *	120 W	130 W	140 W
Arrangement	-0 / +10 W		
Module efficiency η	11.4 %	12.3 %	13.3 %
Opening efficiency η	12.6 %	13.7 %	14.8 %
Open-circuit voltage V _{oc} *	89.2 V	89.3 V	89.4 V
Short-circuit current I _{sc} *	2.00 A	2.14 A	2.28 A
Voltage at V _{mpp} *	69.4 V	69.4 V	69.4 V
Current at I _{mpp} *	1.73 A	1.87 A	2.02 A
Max. overcurrent protection I _R	4.0 A		
Max. system voltage V _{sys}	1000 V		

STC values are valid after light-induced stabilisation, according to IEC 61215:1-4.

STC: Irradiance 1000 W/m² on module surface, 25°C module temperature and spectral distribution of solar light based on atmospheric mass (AM) of 1.5

* Production tolerance -5%/+10%

Temperature coefficients:

SKALA	Value
Temperature coefficients P _{nom}	-0.39 % / °C
Temperature coefficients V _{oc}	-230 mV / °C
Temperature coefficients I _{sc}	0 mA / °C

Data measured at low light intensity:

The relative module efficiency reduction with light intensity at 200 W/m² with respect to 1000 W/m² at 25°C module temperature and 1.5 AM spectrum is 6%. At 500 W/m² the relative module efficiency improvement is equal to +1%.

As a result of constant research and continuous product improvements, the specifications indicated in the product data sheet are subject to change without notice. This data sheet does not entitle to any right whatsoever and AVANCIS does not accept any responsibility for or arising from the information therein. Installation equipment is not supplied with the product.

Standard packaging:

Packaging information	
Dimensions including pallet	1650 mm x 800 mm x 1000 mm
approx. Gross weight (full box)	375 kg
Modules per box	20
Max. Number of stackable boxes	1 over 1 (stack of 2)
Max. truck load	48 (3 x 8 + 3 x 8)
Max. 40ft Container load (24t)	28 (1 x 14 + 1 x 14)

Other packaging on request



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