

# *Empower your facade*

# SKALA

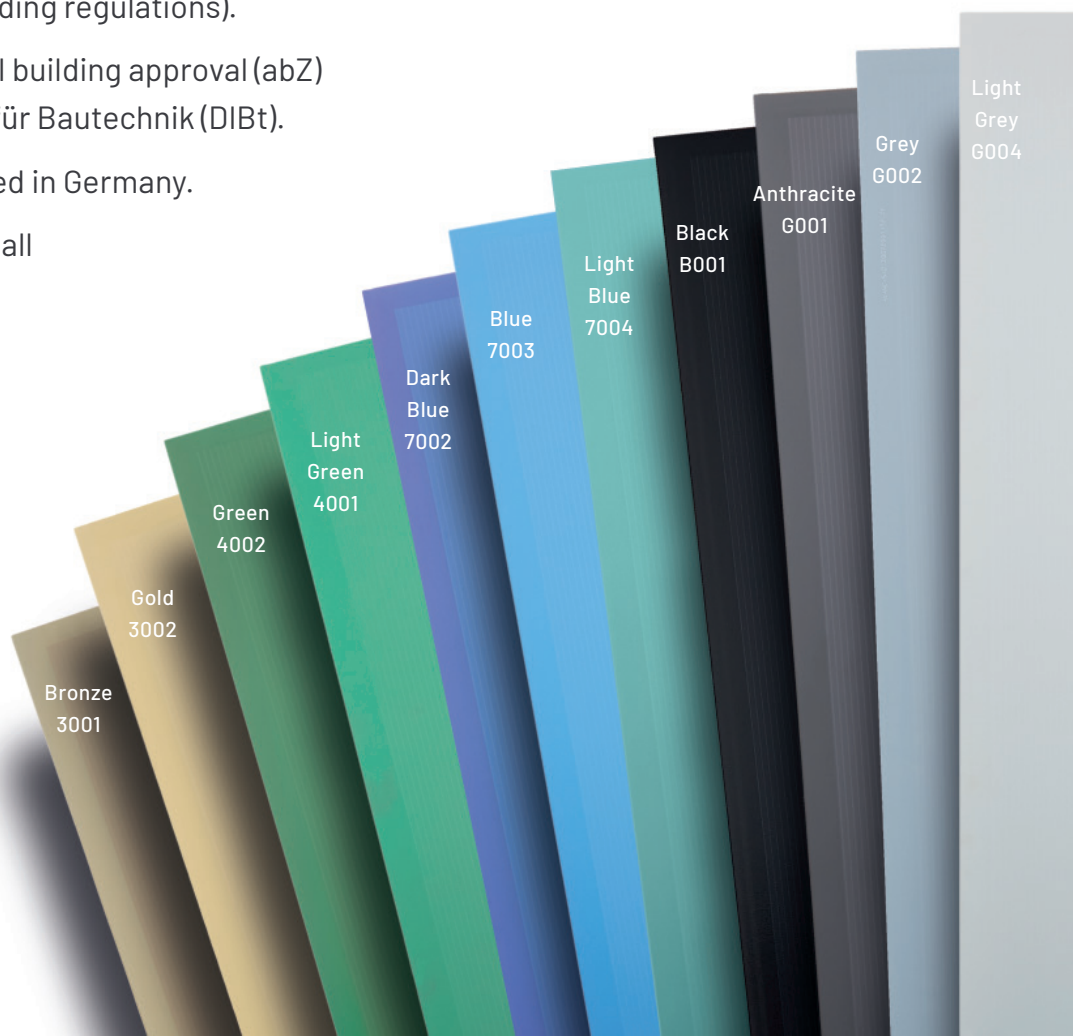
## *SKALA - as diverse as your ideas*

- 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).
- Is developed and produced in Germany.
- Is approved according to all relevant certifications.
- Is available in different colors and lengths.



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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 ESG
Design load <sup>1)</sup> - Safety factor 1.5	upward 3300 Pa   downward 3500 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 mm <sup>2</sup> ; minimal bending radius: 6 × outer diameter
Connector type	H4
Fire rating (roof)	Class C (ANSI/UL 790:2004)
Classification of fire behavior (building envelope)	B2 or B1 (DIN 4102-1:1998-05) <sup>2)</sup> B-s2, d0 (DIN EN 13501-1:2019-05) <sup>3)</sup>

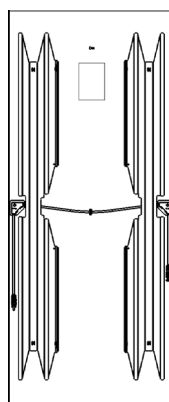
<sup>1)</sup> according to IEC 61730, for standard SKALA mounting<sup>2)</sup> valid in Germany, depending on product variant<sup>3)</sup> valid for all SKALA color codes excluding B001, B001: can be ordered optionally

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



664 mm

1587 mm



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

## ELECTRICAL SPECIFICATION

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

SKALA xxx <sup>1)</sup>	AOBB <sup>1)</sup>		
	3002 4001 6004	3001 4002 7002 7003 7004 <sup>1)</sup> 6002	B001 G001
Nominal power $P_{nom}^{IV)}$	125 W	135 W	145 W
Sorting	-0/+5 W		
Module efficiency $\eta$	11.9%	12.8%	13.8%
Aperture efficiency $\eta$	13.2%	14.2%	15.3%
Open circuit voltage $V_{OC}^{IV)}$	89.2 V	89.3 V	89.4 V
Short circuit current $I_{SC}^{IV)}$	2.07 A	2.21 A	2.35 A
Voltage at mpp $V_{mpp}^{IV)}$	69.4 V	69.4 V	69.4 V
Current at mpp $I_{mpp}^{IV)}$	1.80 A	1.95 A	2.09 A
Max. over-current protection $I_R$	4.0 A		
Max. system voltage $V_{sys}$	1000 V		

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

STC: Irradiance 1000 W/m<sup>2</sup>, module temperature 25 °C, spectral light distribution according to atmospheric mass (AM) 1.5.<sup>1)</sup> „xxx“ corresponds to power class in Wp (in steps of 5 W)<sup>1)</sup> Color code<sup>1)</sup> Placement in performance class subject to reservation<sup>IV)</sup> Tolerance of manufacturing: -5%/+10%

Temperature coefficient	Value
Temperature coefficient $P_{nom}$	-0.39% / °C
Temperature coefficient $V_{OC}$	-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<sup>2</sup> is 6%, compared to 1000 W/m<sup>2</sup> at 25 °C module temperature and spectrum AM 1.5. At 500 W/m<sup>2</sup>, the relative increase of module efficiency is +1%.

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### 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



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