

*Empower
your facade*

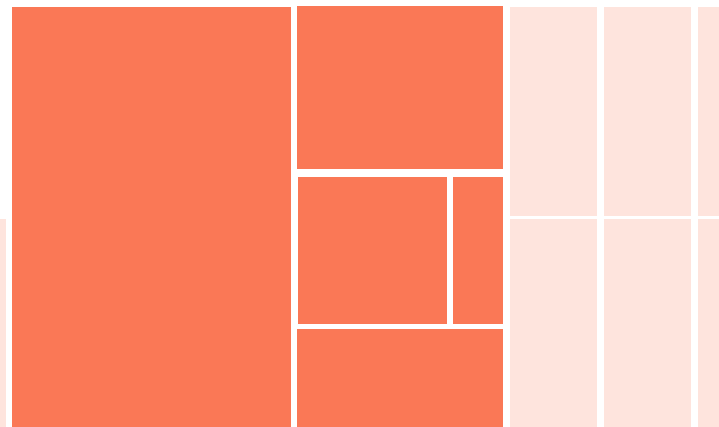
SKALA
Matrix

SOLAR MODULES FOR BUILDING INTEGRATED PHOTOVOLTAICS

■ ■ ■ FLEXIBILITY

- Flexibility in size (standard size 1,590 mm × 710 mm)
- Flexibility of glass thickness
(Standard 4 mm cover glass | 4 mm back glass)¹⁾
- High variety of color options and glass finishes

In addition to a standard size, the module sizes can be scaled, providing the highest degree of flexibility.



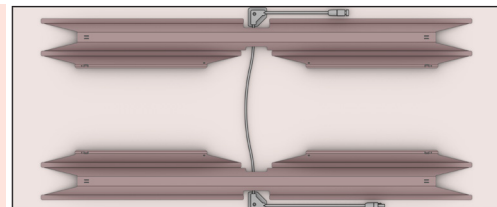
■ ■ ■ POWER

- High power thanks to crystalline cell technology - up to 180 W/m²
- Maximization of the aperture area through an efficient cell layout
- Project-specific adaptation of wafer sizes (depending on the focus on costs, performance or aesthetics)

■ ■ ■ MOUNTING AND MAINTENANCE

- Low cleaning and maintenance costs
- Frameless - therefore reduced soiling
- Simple, standardized fastening systems with or without backrails
- Backrails glued to the back of the module allowing invisible mounting²⁾

Owing to our proven backrail system, SKALA Matrix modules are compatible with a variety of substructures.



¹⁾ Deviations upon request

²⁾ For module sizes up to (L × W): 2.0 m × 1.2 m



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SKALA Matrix

ELECTRICAL SPECIFICATION

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

SKALA Anthracite	1,590 x 710 mm ²	1,590 x 710 mm ²
Wafer size	M6H	M6H
Busbar cover	With	Without
Nominal power P_{nom}	182 W (161 W/m ²)	200 W (177 W/m ²)
Sorting	±5%	
Module efficiency η	16.1%	17.7%
Open circuit voltage V_{oc}	24 V	24 V
Short circuit current I_{sc}	9.6 A	10.5 A
Voltage at mpp V_{mpp}	20 V	20 V
Current at mpp I_{mpp}	9.1 A	10.0 A
Max. overcurrent protection I_R	15.0 A	
Max. system voltage V_{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.

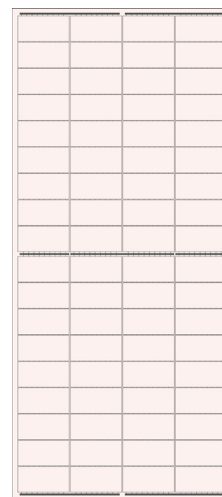
Temperature coefficient	Value
Temperature coefficient P_{nom}	-0.39 %/°C
Temperature coefficient V_{oc}	-0.31 %/°C
Temperature coefficient I_{sc}	0.05 %/°C
Operating temperature range	-40 °C up to +85 °C

MECHANICAL SPECIFICATION

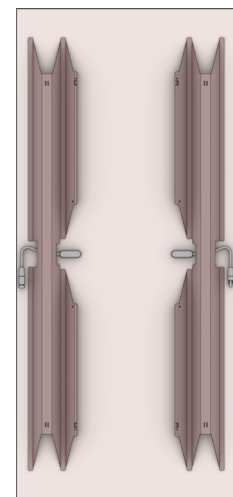
Characteristic	SKALA Matrix
Thickness (laminate + backrail)	9 mm + 33 mm
Weight	23 kg/m ²
Cell type	PERC - Mono cSi
Frame	Frameless
Front glass	4.0 mm single-pane safety glass
Rear glass	4.0 mm single-pane safety glass
Encapsulant	POE

CERTIFICATION

Design qualification and type approval: IEC 61215:2016
Safety qualification: IEC 61730:2016



Front side of the module



Rear side of the module with backrail system for Hook-in mounting

Module efficiency (1,590 x 710 mm², wafer size M6H, with busbar cover)

Bronze	Light Green	Green	Light Blue	Blue	Dark Blue	Light Grey	Grey	Anthracite	Black
172 W	162 W	173 W	174 W	166 W	175 W	155 W	169 W	182 W	182 W

