



**INTEGRATION GLASS/GLASS  
PERC48**

PERC 245-255 Wp

**Schweizer**



**Exquisitly designed  
in-roof panel**

Inroof system, BIPV-Typ EN 50583, Category A

2 x 2 mm strong, hardened and scratchresistant solar glass

Protection of cells against microcracks through double glass composite

Easy to install, reliable operation

Rainproof like a tiled roof (SIA 232/1)

Excellent mechanical load values, compressive load up to 5,400 Pa <sup>2</sup>

Hail class HW 3

**Optimized for  
performance**

PID-free PERC high performance solar cells

Antireflective coated solar glass

Low-light optimized

Positively classified -0/+4.99 Wp

Industry-leading NMOT values

**Highest quality  
standards**

Manufactured according to DIN EN ISO 9001:2015  
DIN EN ISO 14001:2015  
BS OHSAS 18001:2007

PV-module type approval according to IEC 61215:2016 <sup>3</sup>

PV-module safety qualification according to IEC 61730:2016 <sup>3</sup>

Fire class: hard roofing (Euro class E)

**Guaranteed  
performance <sup>1</sup>**

30 years of linear performance guarantee

20 years product guarantee, optional extension to 30 years

Total Care for the entire system (optional)

<sup>1</sup> For detailed information please consult the CS Wismar GmbH warranty conditions

<sup>2</sup> See backside for detailed test loads

<sup>3</sup> Subject to recertification

# INTEGRATION GLASS/GLASS 245 | 250 | 255 PERC48

## Performance STC

Under standard Test Conditions STC:  
1000 W/m<sup>2</sup>; spectrum AM 1.5;  
Cell temperature 25°C  
Measurement tolerance STC:  
P<sub>mpp</sub> ±3%; I<sub>sc</sub> ±10%; U<sub>oc</sub> ±10%

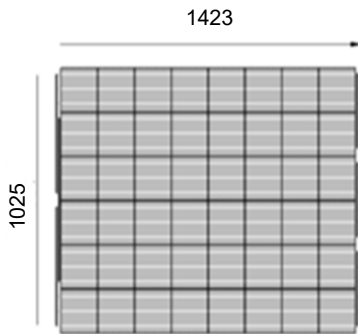
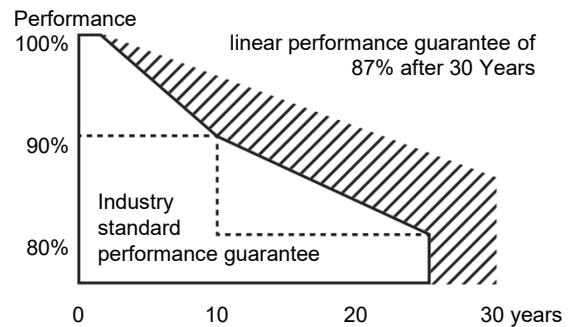
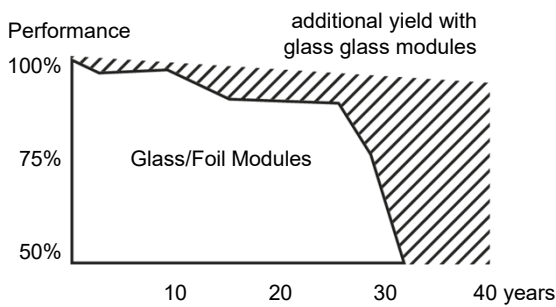
Nominal Power P <sub>mpp</sub> (Wp)	245	250	255
Open Circuit Voltage U <sub>oc</sub> (V)	31,52	31,62	31,74
Voltage U <sub>mpp</sub> (V)	26,32	26,46	26,65
Short Circuit Current I <sub>sc</sub> (A)	9,96	10,13	10,30
Current I <sub>mpp</sub> (A)	9,31	9,45	9,57
Efficiency η (%)	16,8	17,1	17,5

Reduction of module efficiency at reduction from 1000 W/m<sup>2</sup> to 200 W/m<sup>2</sup>: 4,1% ± 0,2% (relative)

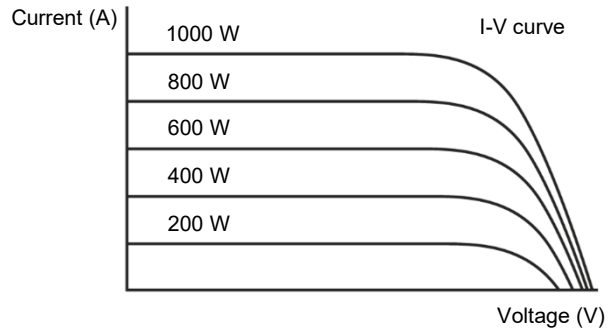
## Performance NMOT

Nominal operating temperature of module  
800 W/m<sup>2</sup>, NMOT, AM 1.5

Nominal Power P <sub>mpp</sub> (Wp)	189	193	197
Open Circuit Voltage U <sub>oc</sub> (V)	29,48	29,57	29,68
Voltage U <sub>mpp</sub> (V)	25,49	25,62	25,80
Short Circuit Current I <sub>sc</sub> (A)	8,05	8,19	8,32
Current I <sub>mpp</sub> (A)	7,43	7,54	7,64



measurements in mm



## Other Technical Specification

Max. system voltage	1000 V
Weight	18.0 ± 0.5 kg
Reverse Current Load I <sub>R</sub>	15 A
Junction box	IP 67 with 3 bypass diodes
Connectors	IP 67, MC4
Fire rating	class C
Operating temperature	-40°C ... +85°C
Design load: snow	3.600 Pa *
Max test load	5.400 Pa
Design load: wind	1.600 Pa *
Max test load	2.400 Pa
Outer dimensions	1423 x 1025 mm
Raster dimensions	1405 x 993 mm

\* safety factor 1.5

## Thermal Properties

TC P <sub>mpp</sub>	-0.39 %/K
TC U <sub>oc</sub>	-0.28 %/K
TC I <sub>sc</sub>	0.040 %/K
NMOT	45 +/- 2 °C

## Material Used

No. of cells	48 cells
Type of cells	mono perc
Front	hardened solar glass
Frame	Solrif frame
Frame height	16 mm
Module height	35 mm

