



**INTEGRATION GLASS/GLASS  
PERC60**

PERC 305-320 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 305 | 310 | 315 PERC60

## 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%

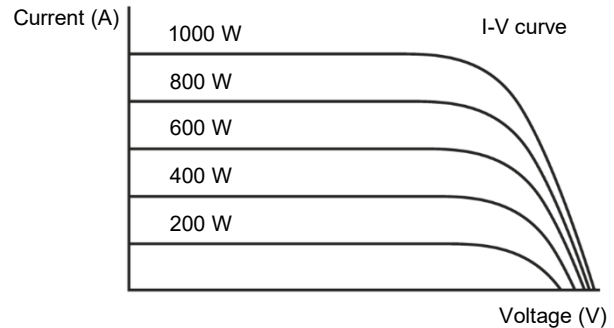
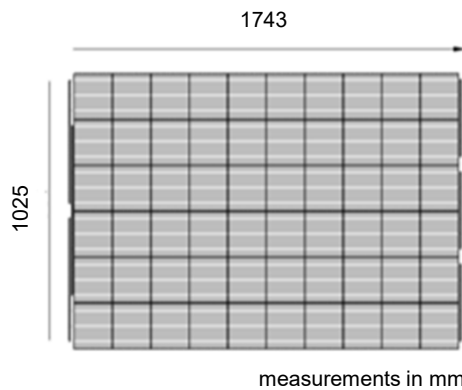
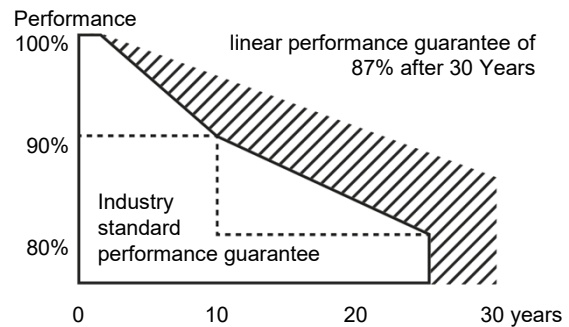
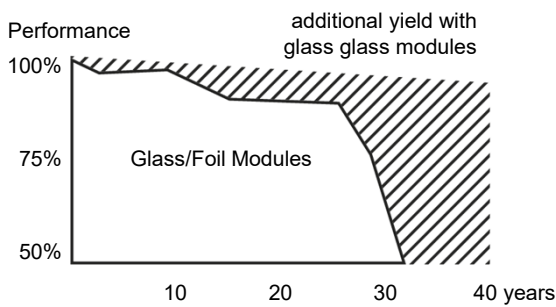
Nominal Power P <sub>mpp</sub> (Wp)	305	310	315	320
Open Circuit Voltage U <sub>oc</sub> (V)	39,62	39,82	40,03	40,22
Voltage U <sub>mpp</sub> (V)	32,94	33,16	33,37	33,61
Short Circuit Current I <sub>sc</sub> (A)	9,87	9,98	10,09	10,20
Current I <sub>mpp</sub> (A)	9,26	9,35	9,44	9,52
Efficiency η (%)	17,1	17,4	17,6	17,9

Reduction of module efficiency at reduction from 1000 W/m<sup>2</sup> to 200 W/m<sup>2</sup>: 2,6% ± 0,1% (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)	239	243	246	250
Open Circuit Voltage U <sub>oc</sub> (V)	37,05	37,24	37,44	37,61
Voltage U <sub>mpp</sub> (V)	32,29	32,50	32,71	32,94
Short Circuit Current I <sub>sc</sub> (A)	7,97	8,06	8,15	8,24
Current I <sub>mpp</sub> (A)	7,39	7,46	7,53	7,60



## Other Technical Specification

Max. system voltage	1000 V
Weight	22.0 ± 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	1743 x 1025 mm
Raster dimensions	1725 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	60 cells
Type of cells	mono perc
Front	hardened solar glass
Frame	Solrif frame
Frame height	16 mm
Module height	35 mm

