

Optional:  
Balance



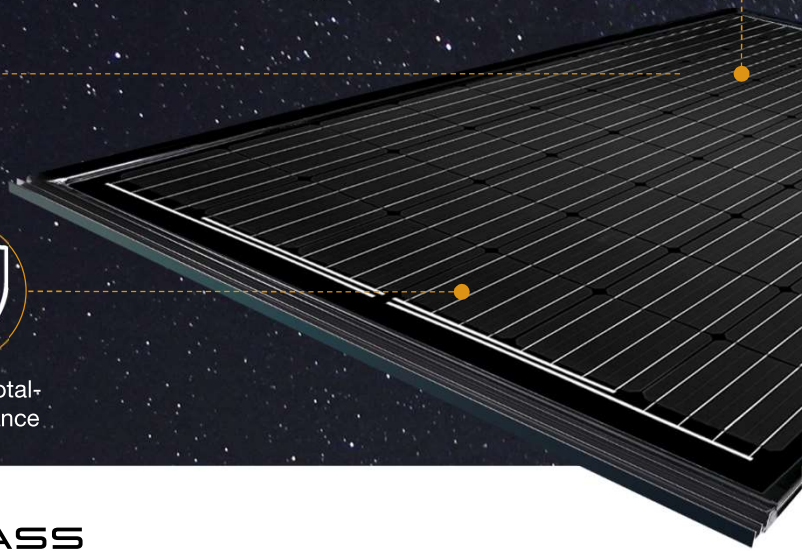
Optional: junction  
box 1500 Volt



Optional: 30yrs  
guarantee



Optional: Total-  
Care Insurance



## INTEGRATION GLASS/GLASS M60

MONOCRYSTALLINE 305-315 Wp

**Schweizer**



### Long lifetime even under extreme conditions

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 monocrystalline high performance solar cells

Antireflective coated solar glass

Low-light optimized

Positively classified -0/+4.99 Wp

Industry-leading NMOT values

### Highest quality standards

Rigid roofing, P-BWU03-I-16.3.237

Manufactured acc. to  
DIN EN ISO 9001:2015  
DIN EN ISO 14001:2015  
DIN EN ISO 45001:2018

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

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

Fire class: rigid roof (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 M60

## 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%

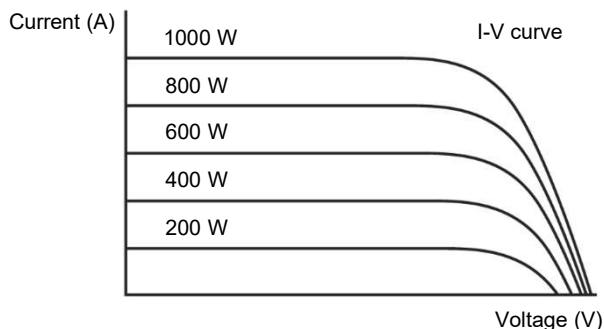
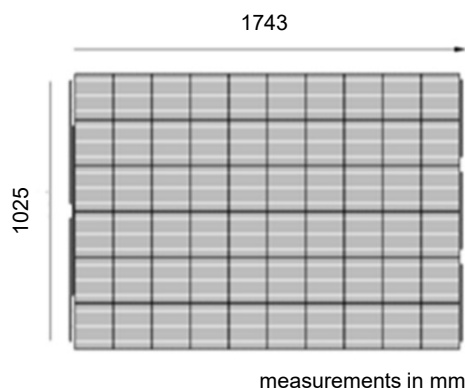
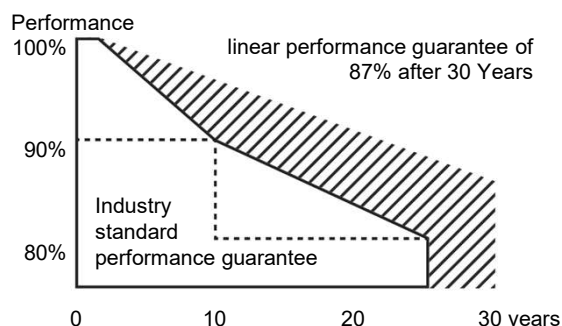
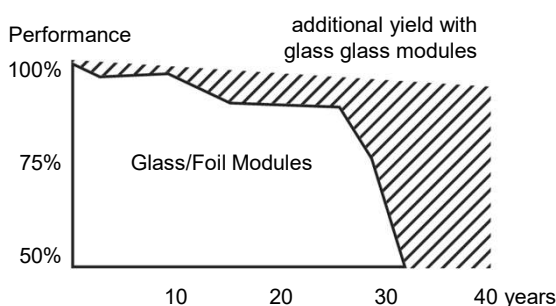
Nominal Power P <sub>mpp</sub> (Wp)	305	310	315
Open Circuit Voltage U <sub>oc</sub> (V)	39,62	39,82	40,03
Voltage U <sub>mpp</sub> (V)	32,94	33,16	33,37
Short Circuit Current I <sub>sc</sub> (A)	9,87	9,98	10,09
Current I <sub>mpp</sub> (A)	9,26	9,35	9,44
Efficiency η (%)	17,1	17,4	17,6

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
Open Circuit Voltage U <sub>oc</sub> (V)	37,05	37,24	37,44
Voltage U <sub>mpp</sub> (V)	32,29	32,50	32,71
Short Circuit Current I <sub>sc</sub> (A)	7,97	8,06	8,15
Current I <sub>mpp</sub> (A)	7,39	7,46	7,53



## Other Technical Specification

Max. system voltage	1000 V
Weight	ca. 22.0 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

## 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	monocrystalline
Front	hardened solar glass
Frame	Solrif frame
Frame height	16 mm
Module height	35 mm

\* safety factor 1.5

