



SONNENSTROM  
FABRIK



## INTEGRATION GLASS/GLASS P60

POLYCRYSTALLINE 260-275 WP



### Exquisitly designed in-roof panel

2 x 2 mm strong, scratch-resistant thermally hardened solar glass

Glass-Glass composite technology minimizes impact of environmental factors

cells in neutral phase are especially protected against tensile and pressure loads

In-roof panels with Solrif frame

Easy to install, reliable operation

Tested system structure and rain-proof

### Optimized for performance

PID-free polycrystalline high performance solar cells

Antireflective coated and light-transmitting solar glass

Best low-light behavior

Positively classified -0/+4.99 Wp

Industry-leading NMOT values

### Highest quality standards

Manufactured in accordance with  
DIN EN ISO 9001:2015  
DIN EN ISO 14001:2015  
BS OHSAS 18001:2007

PV-module type approval according to IEC 61215:2016<sup>1</sup>

PV-module safety qualification according to IEC 61730:2016<sup>1</sup>

### Performance guarantee degradation below industry standard \*

30 years linear performance guarantee

20 years product guarantee

Optional extension of product guarantee to 30 years

Optional Total Care for the entire system

\* For detailed information please consult the CS Wismar GmbH warranty conditions

<sup>1</sup> Subject to recertification

# INTEGRATION GLASS/GLASS 260 | 265 | 270 | 275 P60

## 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%

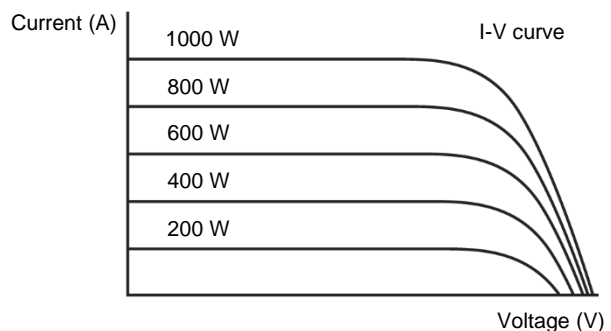
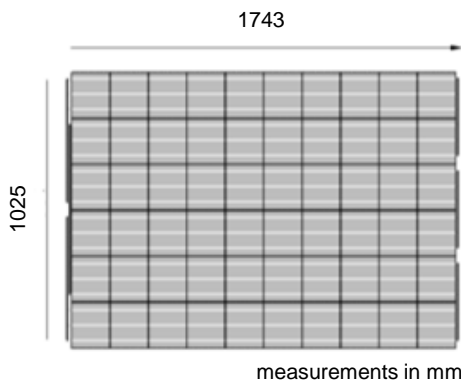
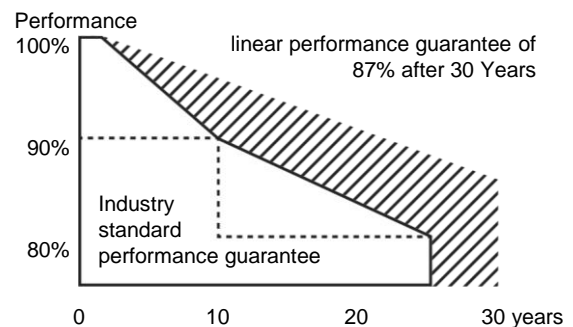
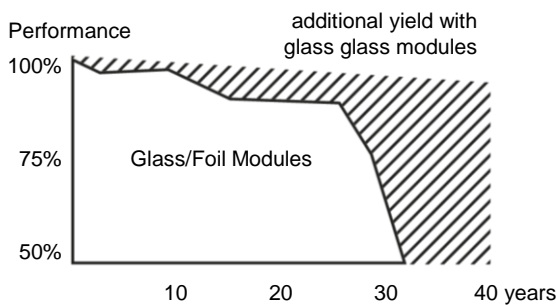
Nominal Power P <sub>mpp</sub> (Wp)	260	265	270	275
Open Circuit Voltage U <sub>oc</sub> (V)	38,08	38,25	38,42	38,60
Voltage U <sub>mpp</sub> (V)	30,57	30,80	31,03	31,26
Short Circuit Current I <sub>sc</sub> (A)	9,18	9,27	9,36	9,44
Current I <sub>mpp</sub> (A)	8,56	8,65	8,74	8,82
Efficiency η (%)	14,6	14,8	15,1	15,4

Reduction of module efficiency at reduction from 1000 W/m<sup>2</sup> to 200 W/m<sup>2</sup>: 1,0% ± 0,3% (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)	204	208	212	215
Open Circuit Voltage U <sub>oc</sub> (V)	35,41	35,57	35,73	35,90
Voltage U <sub>mpp</sub> (V)	29,82	30,04	30,26	30,47
Short Circuit Current I <sub>sc</sub> (A)	7,44	7,51	7,59	7,65
Current I <sub>mpp</sub> (A)	6,85	6,93	7,00	7,06



## 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	1.600 Pa *
Max test load	2.400 Pa
Design load: wind	1.600 Pa *
Max test load	2.400 Pa

## Thermal Properties

TC P <sub>mpp</sub>	-0.40 %/K
TC U <sub>oc</sub>	-0.305 %/K
TC I <sub>sc</sub>	0.053 %/K
NMOT	45 +/- 2 °C

## Material Used

No. of cells	60 cells
Type of cells	polycrystalline
Front	hardened solar glass
Frame	Solrif frame
Frame height	16 mm
Module height	35 mm

\* safety factor 1.5

