SONNENSTROM FABRIK

INTEGRATION GLASS/GLASS M60

MONOCRYSTALLINE 320–330 WP

Schweizer

GLAS
GLAS

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 [2]

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[3]

PV-module safety qualification acc. to IEC 61730:2016[3]

Fire class: rigid roof (Euro class E)

Guaranteed performance [1]

30 years of linear performance guarantee

20 years product guarantee, optional extension to 30 years

Total Care for the entire system (optional)

[1] For detailed information please consult the CS Wismar GmbH warranty conditions
[2] See backside for detailed test loads
[3] Subject to recertification

INTEGRATION GLASS/GLASS 320 | 325 | 330 M60

Performance STC

Under standard Test Conditions STC:
1000 W/m²; spectrum AM 1.5;
Cell temperature 25°C
Measurement tolerance STC:
Pmpp ±3%; Isc ±10%; Uoc ±10%

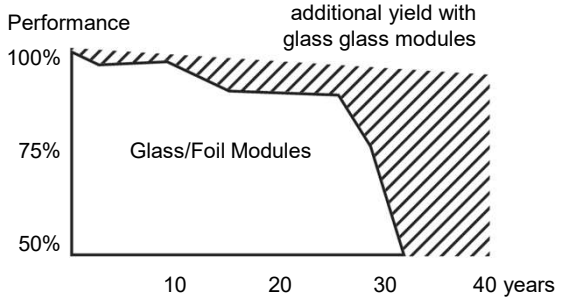
Nominal Power Pmpp (Wp)	320	325	330
Open Circuit Voltage Uoc (V)	40,22	40,41	40,60
Voltage Umpp (V)	33,61	33,85	34,09
Short Circuit Current Isc (A)	10,20	10,31	10,42
Current Impp (A)	9,52	9,60	9,68
Efficiency η (%)	17,9	18,2	18,5

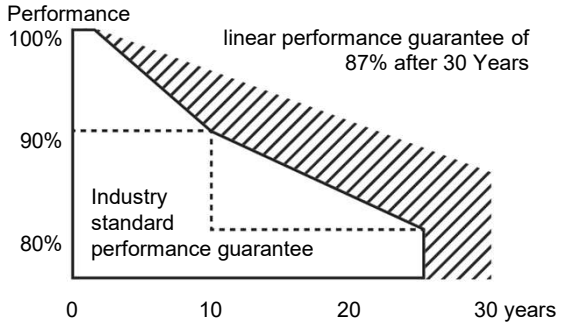
Reduction of module efficiency at reduction from 1000 W/m² to 200 W/m²: 3,3% ± 0,5% (relative)

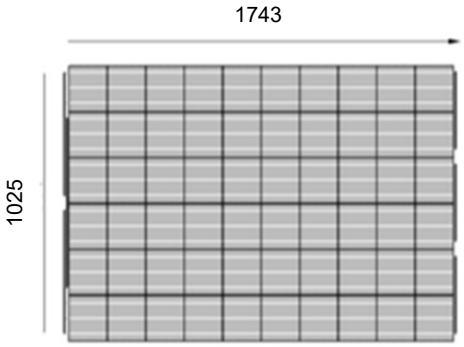
Performance NMOT

Nominal operating temperature of module
800 W/m², NMOT, AM 1.5

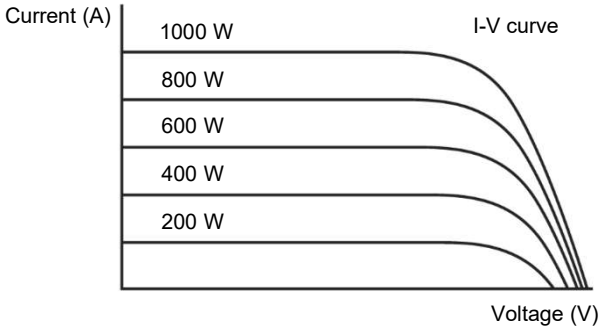
Nominal Power Pmpp (Wp)	250	254	258
Open Circuit Voltage Uoc (V)	37,61	37,79	37,97
Voltage Umpp (V)	32,94	33,17	33,40
Short Circuit Current Isc (A)	8,24	8,33	8,42
Current Impp (A)	7,60	7,66	7,72







measurements in mm



Other Technical Specification

Max. system voltage	1000 V
Weight	ca. 22.0 kg
Reverse Current Load IR	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 Pmpp	-0.39 %/K
TC Uoc	-0.28 %/K
TC Isc	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

GLAS GLAS · MADE IN GERMANY · 30 JAHRE GARANTIE · -0 / +4,99 WP · TÜVRheinland CERTIFIED www.tuv.com ID 1111214084 · CE · sicZert Zertifizierungen GmbH Lotzbeckstraße 22 • 77933 Lahr Zertifiziert nach DIN EN ISO 9001 DIN EN ISO 14001 DIN EN ISO 45001