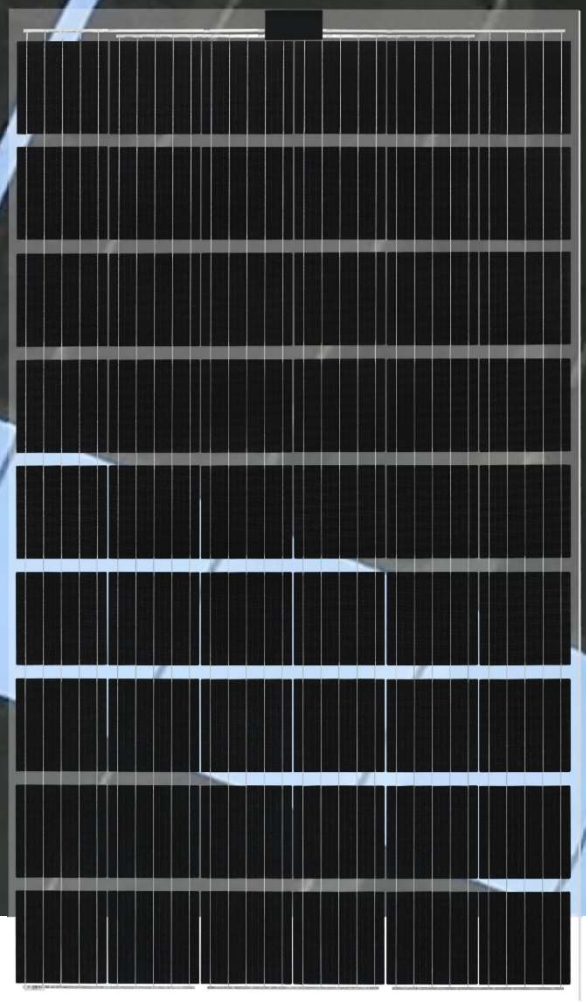
SONNENSTROM FABRIK



EXCELLENT GLASS/GLASS M54

DIBt frameless

MONOCRYSTALLINE 285–295 WP

CS Wismar GmbH
Allgemeine bauaufsichtliche Zulassung
Z-70.3-280
Deutsches Institut für Bautechnik

High Transparency 19%

GLAS
GLAS

Transparency and Performance

The cell matrix is optimized for light transmission and maximum performance

The optimized cell matrix enables a light transparency of 17%

Optimizes electricity production whilst preserving daylight diffusion for agricultural greenhouses and buildings

Perfect architectural integration and control of natural light contribution for verandas, pergolas, awnings and carports

30 years linear performance guarantee

20 years product guarantee

Optional Total Care for the entire system

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

EXCELLENT GLASS/GLASS 285 | 290 | 295 M54

DIBt frameless

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%

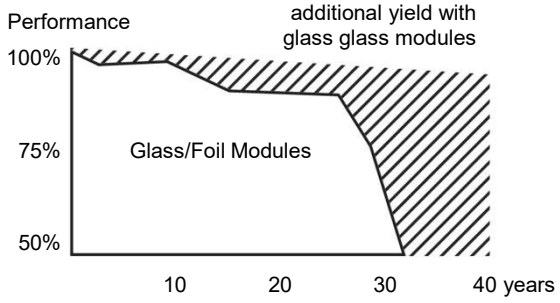
Nominal Power Pmpp (Wp)	285	290	295
Open Circuit Voltage Uoc (V)	36,32	36,37	36,42
Voltage Umpp (V)	30,07	30,31	30,54
Short Circuit Current Isc (A)	10,06	10,17	10,28
Current Impp (A)	9,48	9,57	9,66
Efficiency η (%)	18,4	18,7	19,0

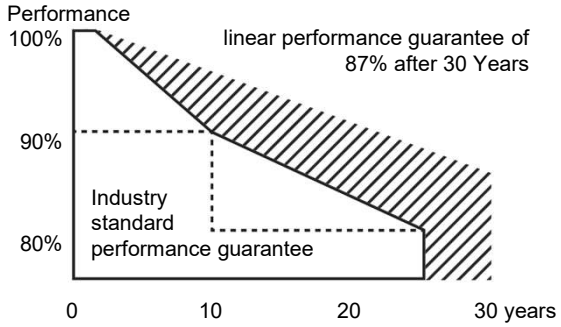
Reduction of module efficiency at reduction from 1000 W/m² to 200 W/m²: 2,4% ± 0,3% (relative)

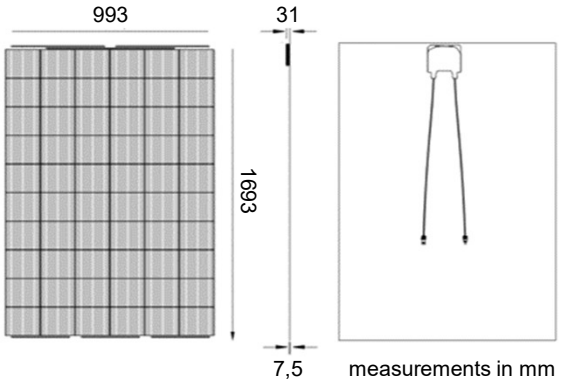
Performance NMOT

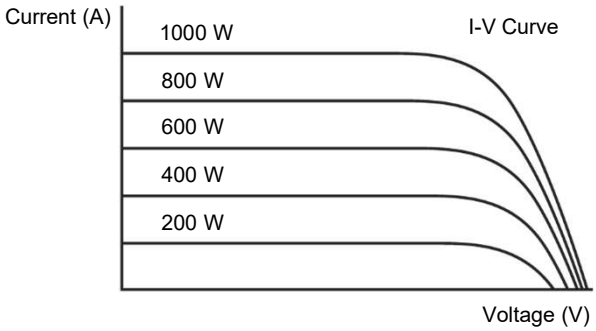
Nominal operating temperature of module
800 W/m², NMOT, AM 1.5

Nominal Power Pmpp (Wp)	222	226	230
Open Circuit Voltage Uoc (V)	33,97	34,01	34,06
Voltage Umpp (V)	29,37	29,58	29,77
Short Circuit Current Isc (A)	8,13	8,22	8,31
Current Impp (A)	7,57	7,64	7,71









Other Technical Specification

Max. system voltage	1000 V
Weight	ca. 33.0 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	1.600 Pa *
Max test load	2.400 Pa
Design load: wind	1.600 Pa *
Max test load	2.400 Pa

* 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	54 cells
Type of cells	monocrystalline
Front & back	3 mm TVG solar glass
Frame	n/a
Frame height	n/a

With the Ü mark, we confirm that the PV module was produced in accordance with the provisions of the abZ/aBG Z-70.3-280 and thus proves the usability or applicability of the product in terms of the state building codes. This does not replace the permits, approvals and certificates required by law for the implementation of construction projects.

Deutsches Institut für Bautechnik DIBt

Management System ISO 9001:2015 ISO 14001:2015 ISO 45001:2018 TÜVRheinland ZERTIFIZIERT www.tuv.com ID 9000026381