



Optional: junction
box 1500 Volt



Optional: 30yrs
guarantee



Optional: Total-
Care Insurance



**EXCELLENT GLASS/GLASS M54
brilliant**

MONOCRYSTALLINE 285-295 WP



Transparency and Performance

The cell matrix is
optimized for light
transmission and
maximum performance

The optimized cell matrix
enables a light
transparency of 19%

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

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Performance STC

Under standard Test Conditions STC:
1000 W/m²; spectrum AM 1.5;
Cell temperature 25°C
Measurement tolerance STC:
P_{mpp} ±3%; I_{sc} ±10%; U_{oc} ±10%

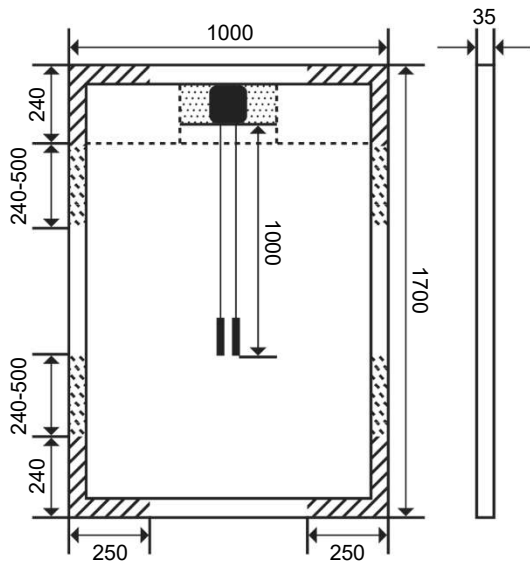
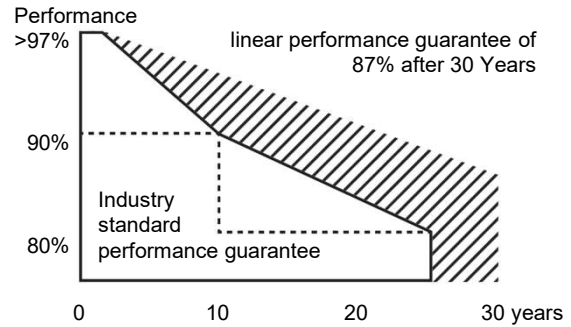
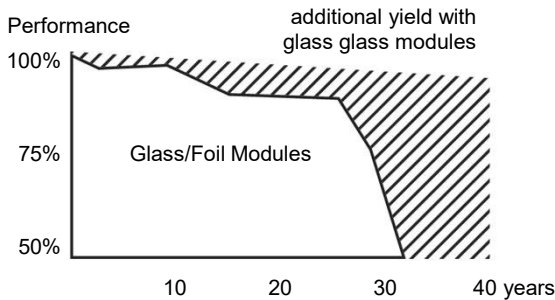
Nominal Power P _{mpp} (Wp)	285	290	295
Open Circuit Voltage U _{oc} (V)	36,32	36,37	36,42
Voltage U _{mpp} (V)	30,07	30,31	30,54
Short Circuit Current I _{sc} (A)	10,06	10,17	10,28
Current I _{mpp} (A)	9,48	9,57	9,66
Efficiency η (%)	18,4	18,7	19,0

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

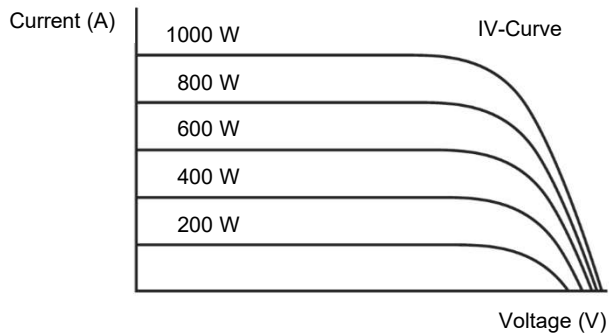
Performance NMOT

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

Nominal Power P _{mpp} (Wp)	222	226	230
Open Circuit Voltage U _{oc} (V)	33,97	34,01	34,06
Voltage U _{mpp} (V)	29,37	29,58	29,77
Short Circuit Current I _{sc} (A)	8,13	8,22	8,31
Current I _{mpp} (A)	7,57	7,64	7,71



measurements in mm



clamping area
 approved up to 2.400 Pa (suction & pressure)
 approved up to 2.400 Pa (suction)/ 5.400 Pa (pressure)
 no contact between junction box and mounting profile permitted in this area.

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	5.400 Pa *
Max test load	8.100 Pa
Design load: wind	2.400 Pa *
Max test load	3.600 Pa

* safety factor 1.5

Thermal Properties

TC P _{mpp}	-0.39 %/K
TC U _{oc}	-0.28 %/K
TC I _{sc}	0.040 %/K
NMOT	45 +/- 2 °C

Material Used

No. of cells	54 cells
Type of cells	monocrystalline
Front	hardened solar glass
Frame	anodized aluminium
Frame height	35 mm

