

EXCELLENT GLASS/GLASS M32

MONOCRYSTALLINE 165-175 WP





Transparency and Performance

The cell matrix is optimized for light transmission and maximum performance

The optimized cell matrix enables a light transparency of 51%

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 165 | 170 | 175 M32 brilliant brilliant

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%

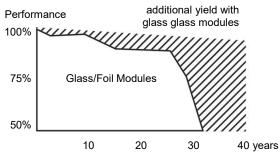
Nominal Power Pmpp (Wp)	165	170	175
Open Circuit Voltage Uoc (V)	21,16	21,39	21,59
Voltage Umpp (V)	17,72	17,99	18,25
Short Circuit Current Isc (A)	9,99	10,19	10,39
Current Impp (A)	9,31	9,45	9,59
Efficiency η (%)	9,7	10,0	10,3

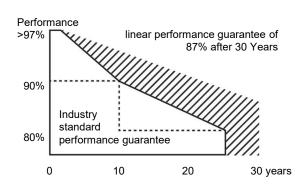
Reduction of module efficiency at reduction from 1000 W/m² to 200 W/m²: 6,1% ± 0,3% (relative)

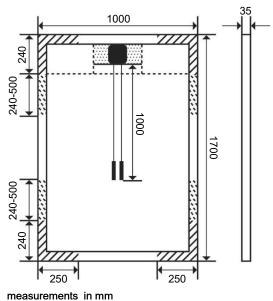
Performance NMOT

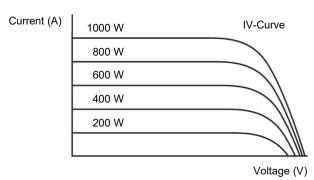
Nominal operating temperature of module 800 W/m², NMOT, AM 1.5

Nominal Power Pmpp (Wp)	125	129	133
Open Circuit Voltage Uoc (V)	19,79	20,00	20,19
Voltage Umpp (V)	16,82	17,07	17,32
Short Circuit Current Isc (A)	8,07	8,23	8,40
Current Impp (A)	7,43	7,54	7,65









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 Weight	1000 V 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

Thermal Properties

TC Pmpp	-0.39 %/K
TC Uoc	-0.28 %/K
TC Isc	0.040 %/K
TOMV	45 +/- 2 °C

Material Used

-0.39 %/K	No. of cells	32 cells
-0.28 %/K	Type of cells	monocrystalline
0.040 %/K	Front	hardened solar glass
45 +/- 2 °C	Frame	anodized aluminium
	Frame height	35 mm
	-0.28 %/K 0.040 %/K	-0.28 %/K Type of cells 0.040 %/K Front 45 +/- 2 °C Frame











^{*} safety factor 1.5