0322.0804 Swiss Premium

M285-60-b GG

Frameless glass-glass module / monocrystalline / 285 Wp / black



Made in Deitingen (Switzerland)



Meets highest aesthetic requirements



Safety glass for overhead glazing and facades



Lifespan of over 50 years due to glass-glass technology



Optionally available for 1500 V system voltage



Full traceability of all raw materials



No tariff restrictions for exports to the EU

The trend-setting Megasol glass-glass modules' front and back side consist of two identical glass panels. By deploying a particularly high-quality encapsulation material, Swiss Premium solar modules feature a very long lifespan of over 50 years.



















Nominal power (Pmpp)	285 Wp
Nominal voltage (Umpp)	31.8 V
Nominal current (Impp)	8.97 A
Open circuit voltage (Uoc)	38.6 V
Short circuit current (Isc)	9.33 A
Cell efficiency	20.40 %
Module efficiency	17.55 %
Power sorting	-0/+5 %

STC (Standard Test Conditions): irradiance 1000 W/m², cell temperature 25°C, AM 1.5

Measuring tolerances ±3 % (Pmpp); ±10 % (Umpp, Impp, Uoc, Isc)

Electrical data at partial load	800 W/m ²
Nominal power (Pmpp)	215 Wp
Nominal voltage (Umpp)	29.4 V
Nominal current (Impp)	7.31 A
Open circuit voltage (Uoc)	36.2 V
Short circuit current (Isc)	7.26 A

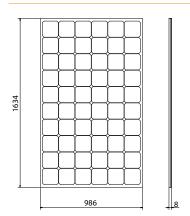
Measuring tolerances ±5 % (Pmpp); ±10 % (Umpp, Impp)

Thermal properties

Nominal operating cell temperature (NOCT)	45 ± 2 °C
Temperature coefficient Uoc	-0.26 %/°C
Temperature coefficient Isc	+0.031 %/°C
Temperature coefficient Pmpp	-0.37 %/°C

Operating conditions	
Temperature range	-40 +85 °C
Max. system voltage	1000 V optionally available for 1500 V
Max. reverse current	20 A
Max. string fuse	16 A
Max. wind and snow loads *	Up to 13'000 N/m ²
Hail resistance	ø40 mm at 23 m/s Hail protection class 4
Application class (acc. to IEC/EN61730)	А
Fire protection	Top and back layer are made of heat-resistant glass. The component is considered to be non-combustible material as defined by the Cantonal Fire Insurances.
Protection class	II
Salt spray test	IEC/EN 61701 I+II
Ammonium corrosion test	IEC/EN 62716

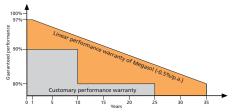
^{*} The maximum loads also depend on the substructure as well as the installation situation. If the requirements are higher than IEC/EN 61215, a project-specific dimensioning of the mounting system is necessary.



Laminate structure	Glass-glass
Cell type	Monocrystalline
Cell size	156x156 mm
Number of cells (matrix)	60 (6x 10)
Colour between cells	Black
Frame	Frameless
Front side	3.2 mm solar glass High-transmission, tempered/toughened, nano-finished/antireflective surface
Encapsulation material	Special EVA (UV+ / IR+) with lowest water vapour permeability
Back side	3.2 mm solar glass Tempered/toughened
Junction box	3 bypass diodes, IP67
Cable cross section	4 mm ²
Connectors	MC4 compatible, IP67
Dimensions (LxWxH) ±3.0 mm	1634x986x8 mm
Modular dimensions (LxW)	Depending on the installation situation
Weight	28.2 kg

Quality and warranty

Quality characteristics	PID-free (no potential induced degradation) Yield-optimized low-light performance Full traceability of all raw materials
Product warranty	10 years
Linear performance warranty	35 years



Relative efficiency level in relation to the minimal output (%). At least 97 % of the minimum output during the first year. Afterwards, max. 0.5 % degradation per annum. At least 92.5 % of the minimum output after 10 years. At least 85 % of the minimum output after 25 years. At least 80 % of the minimum output after 35 years. At least 80 % of the minimum output after 35 years. At least 80 % of the minimum output after Warranties according to the respective latest Megasol Warranty Conditions which can be found on www.megasol.ch/warranty.















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