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 USA & 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.





Swiss Premium M285-60-b GG

Art. 0322.0804

Electrical data STC

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 (lsc)	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/m²	
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 (lsc)	7.26 A	
Measuring tolerances ±5 % (Pmpp); ±10 % (Umpp, Impp)		

Thermal properties

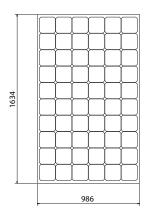
Nominal operating cell temperature (NOCT)	45 ±2 °C
Temperature coefficient Uoc	-0.26 %/°C
Temperature coefficient lsc	+0.031 %/°C
Temperature coefficient Pmpp	-0.37 %/°C

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 *	13'000 N/m ²		
Hail resistance	ø40mm at 23m/s Hail protection class		
Application class (acc. to IEC/EN 61730)	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	П		
Salt spray test	IEC/EN 61701 I+II		
Ammonium corrosion test	IEC/EN 62716		
	In the second		

* 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.

Technical drawing



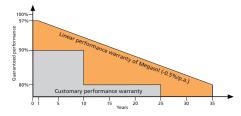
Note: The instructions in the installation manual must be strictly complied with. Further information about approved utilization of products can be found in the installation manual or can be requested from the technical service.

18

General data

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		
	PID free (no notential induced degradation)	

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 % of the minim



E-mail: info@megasol.ch Hotline: +41 62 919 90 90 www.megasol.ch



Megasol partner		

Subject to errors and technical modifications. Data sheet in accordance with DIN EN 50380. © Megasol Energy Ltd | Version: 09/2017