0322.1355 Swiss Premium **M310-60-b GF CF3**

Glass-film / monocrystalline / 310 Wp / Full Black / CleanFrame 3



Made in Deitingen (Switzerland)



Meets highest aesthetic requirements

Compatible with all current insertion/clamping systems

Snow and soiling cannot stick

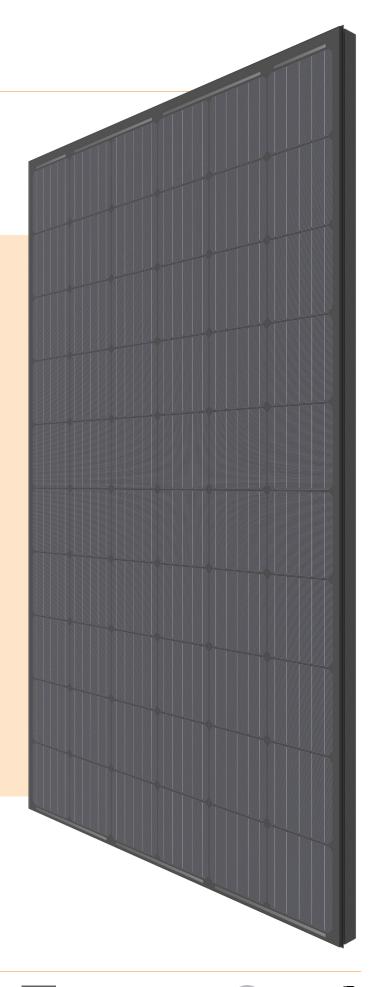
Optimized low-light performance

5-busbar technology



Full traceability of all raw materials

With CleanFrame, contrary to common installation solutions, neither frame nor module clamps will protrude. Snow and soiling can thus not stick – the perfect solution for conditions that involve slight inclination such as trapezoidal sheet roofs or flat roof systems.





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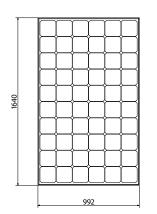
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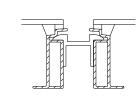
Electrical data STC

Electrical data STC	
Nominal power (Pmpp)	310 Wp
Nominal voltage (Umpp)	32.8 V
Nominal current (Impp)	9.47 A
Open circuit voltage (Uoc)	39.1 V
Short circuit current (lsc)	9.81 A
Cell efficiency	21.70 %
Module efficiency	19.05 %
Power sorting	-0/+5 %
STC (Standard Test Conditions): irradiance 1000 W/m Measuring tolerances ±3 % (Pmpp); ±10 % (Umpp, Electrical data at partial load	r², cell temperature 25°C, AM 1.5 Impp, Uoc, Isc) 800 W/m²
Nominal power (Pmpp)	234 Wp
Nominal voltage (Umpp)	30.4 V
Nominal current (Impp)	7.72 A
Open circuit voltage (Uoc)	36.7 V
Short circuit current (lsc)	7.64 A
Measuring tolerances ±5 % (Pmpp); ±10 % (Umpp, Thermal properties	Impp)
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
Max. reverse current	20 A
Max. string fuse	16 A
Max. wind and snow loads *	Up to 5'400 N/m ²
Hail resistance	ø30mm at 23m/s Hail protection class 3
Application class (acc. to IEC/EN 61730)	А
Fire protection	Top layer is made of heat-resistant glass. The component is considered to be non- combustible material as defined by the Cantonal Fire Insurances.
Protection class	Ш
Standards	IEC/EN 61215, 61730
Salt spray test	IEC/EN 61701 I+II
Ammonium corrosion test	IEC/EN 62716
* Max, possible forces acting on the module. The	e maximum values in mounted condition depend of

* Max. possible forces acting on the module. The maximum values in mounted condition 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.

lechnical 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.

General data

Laminate structure	Glass-foil
Cell type	Monocrystalline, 5 busbars
Cell size	156x156 mm
Number of cells (matrix)	60 (6x 10)
Colour between cells	Black
Frame	CleanFrame 3 Aluminium, anodized black
Front side	3.2 mm solar glass High-transmission, tempered/toughened, nano-finished/antireflective surface
Encapsulation material	EVA with lowest yellowness index
Back side	Three-layer build-up (Polyester / PET / Tedlar) with lowest water vapour permeability
Junction box	3 bypass diodes, IP67
Cable cross section	4 mm ²
Connectors	MC4 compatible, IP67
Dimensions (LxWxH) ± 3.0 mm	1640x992x50 mm
Modular dimensions (LxW)	Depending on the installation situation
Weight	19 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	25 years



Relative efficiency level in relation to the minimal output (%). At least 97% of the minimum output during the first year. Afterwards, max. 0.6% degradation per annum. At least 91.6% of the minimum output after 10 years. At least 82.6% of the minimum output after 25 years. All data within the measuring tolerances. Warranties according to the respective latest Megasol Warranty Conditions which can be found on www.megasol.ch/warranty.



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Megasol partner	

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