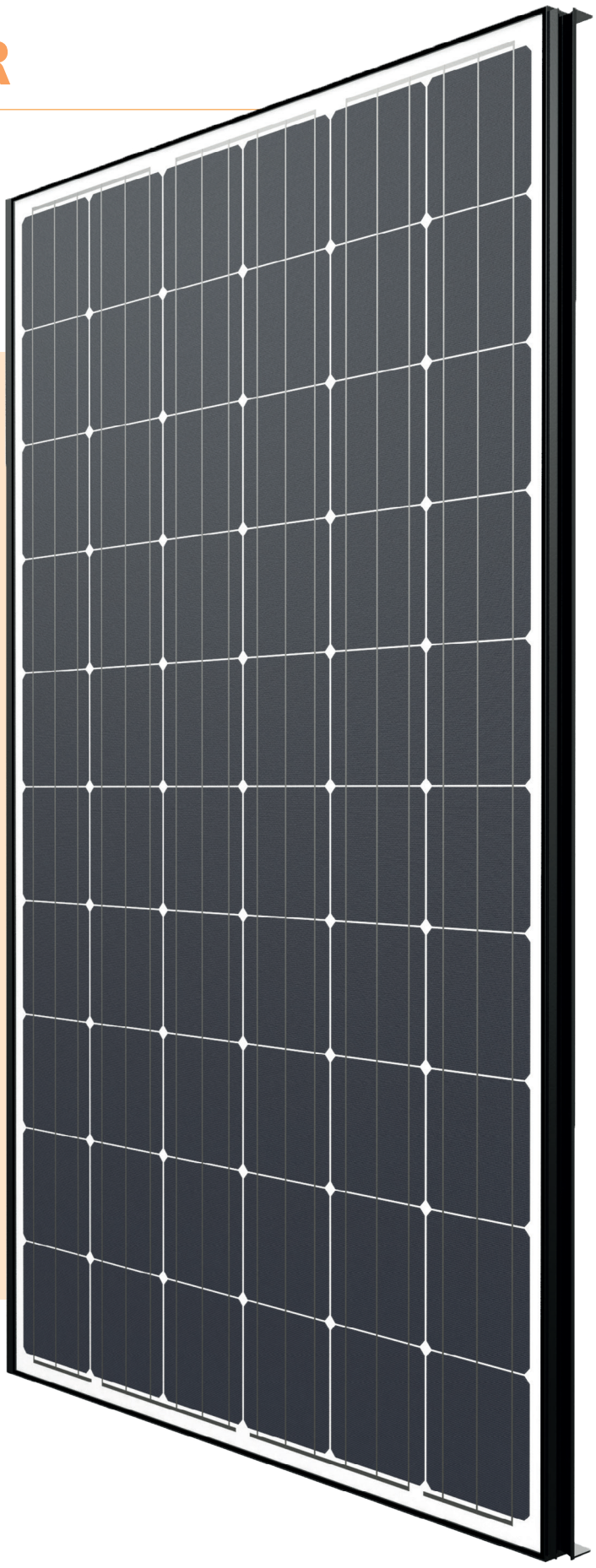
3338.0959 Swiss Premium

M305-60-w GF NICER

Glass-film / monocrystalline / 305 Wp / white /
NICER roof-integrated system



- Made in Deitingen (Switzerland)
- Meets highest aesthetic requirements
- Withstands loads of up to 8000 N/m²
- Snow and soiling cannot stick
- Optimized low-light performance
- Full traceability of all raw materials
- No tariff restrictions for exports to the EU

The NICER roof-integrated system allows for a flush-mounted installation and a homogenous appearance. It guarantees fast installation times, top level cost efficiency for large-scale projects and waterproofness at inclinations of only 3 degrees.

megasol
innovation in power

Swiss Premium M305-60-w GF NICER

Art. 3338.0959

Electrical data STC

Nominal power (Pmpp)	305 Wp
Nominal voltage (Umpp)	32.6 V
Nominal current (Impp)	9.36 A
Open circuit voltage (Uoc)	39.0 V
Short circuit current (Isc)	9.72 A
Cell efficiency	21.40 %
Module efficiency	18.77 %
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)	231 Wp
Nominal voltage (Umpp)	30.2 V
Nominal current (Impp)	7.63 A
Open circuit voltage (Uoc)	36.6 V
Short circuit current (Isc)	7.57 A

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

Thermal properties

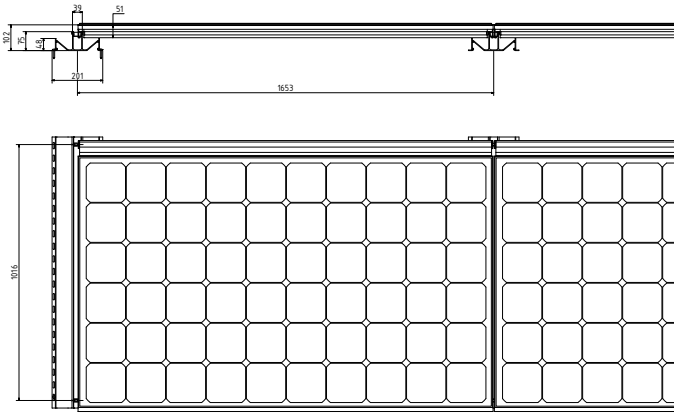
Nominal operating cell temperature (NOCT)	45 ±2 °C
Temperature coefficient Uoc	-0.26 %/°C
Temperature coefficient Isc	+0.031 %/°C
Temperature coefficient Pmpp	-0.37 %/°C

Operating conditions

Temperature range	-40 ... +85 °C
Max. system voltage	1000 V
Max. reverse current	20 A
Max. string fuse	16 A
Max. wind and snow loads *	Up to 8'000 N/m²
Hail resistance	ø30 mm at 23 m/s Hail protection class 3
Application class (acc. to IEC/EN 61730)	A
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	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.

Technical drawing

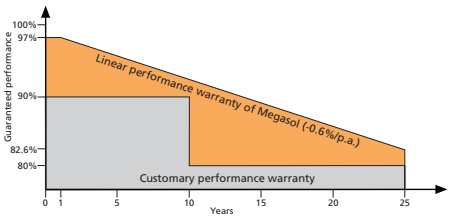


General data

Laminate structure	Glass-foil
Cell type	Monocrystalline
Cell size	156 x 156 mm
Number of cells (matrix)	60 (6x 10)
Colour between cells	White
Frame	NICER Aluminium, anodized black (RAL 9005)
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 mm²
Connectors	MC4 compatible, IP67
Dimensions (L x W x H) ±3.0 mm	1041 x 1648 x 51 mm
Modular dimensions (L x W)	1016 x 1653 mm
Weight	20 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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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.

Subject to errors and technical modifications. Data sheet in accordance with DIN EN 50380. © Megasol Energy Ltd | Version: 07/2018