

3338.0963 Swiss Premium

M300-60-b GF NICER

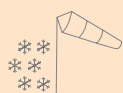
Glass-film / monocrystalline / 300 Wp / Full Black /
NICER roof-integrated system



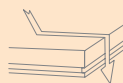
Made in Deitingen (Switzerland)



Meets highest aesthetic requirements



Withstands loads of up to 8000 N/m²



Snow and soiling cannot stick



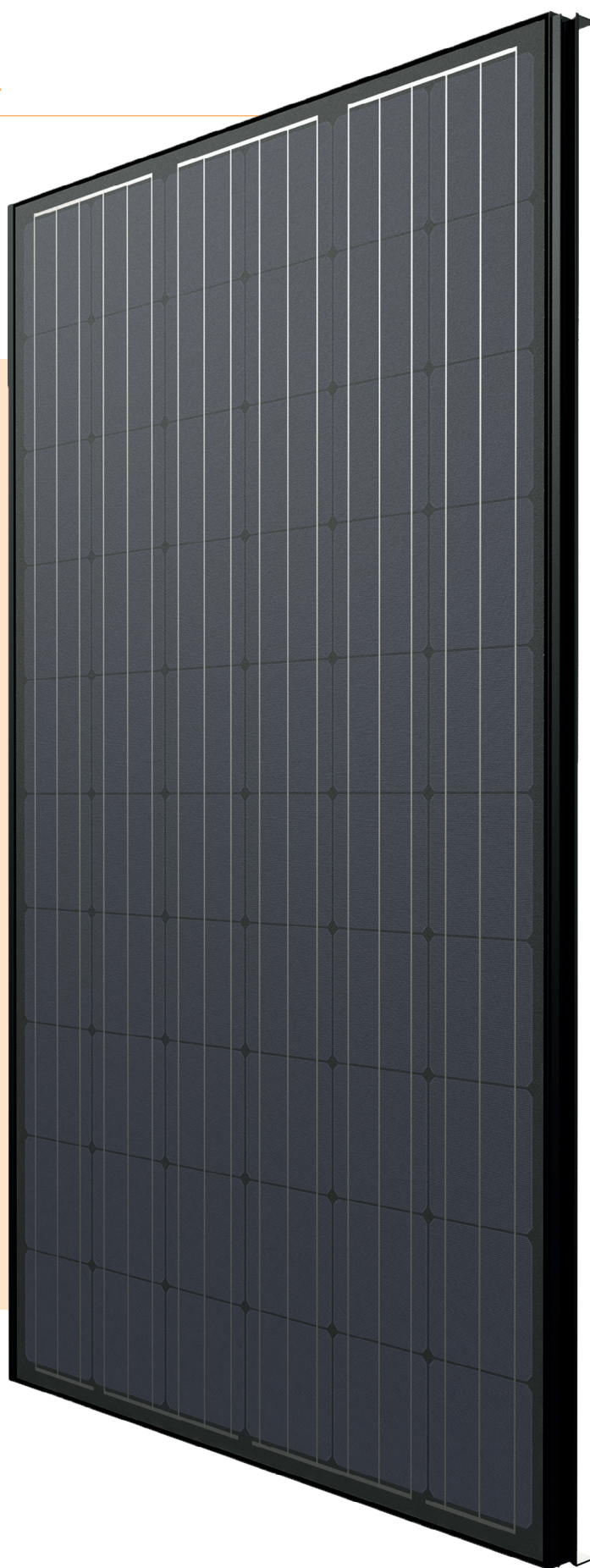
Optimized low-light performance



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.

Electrical data STC

| | |
|-----------------------------|---------|
| Nominal power (Pmpp) | 300 Wp |
| Nominal voltage (Umpp) | 32.4 V |
| Nominal current (Impp) | 9.26 A |
| Open circuit voltage (Uoc) | 38.9 V |
| Short circuit current (Isc) | 9.61 A |
| Cell efficiency | 21.20 % |
| Module efficiency | 18.46 % |
| 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) | 227 Wp |
| Nominal voltage (Umpp) | 30.0 V |
| Nominal current (Impp) | 7.54 A |
| Open circuit voltage (Uoc) | 36.5 V |
| Short circuit current (Isc) | 7.48 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 |

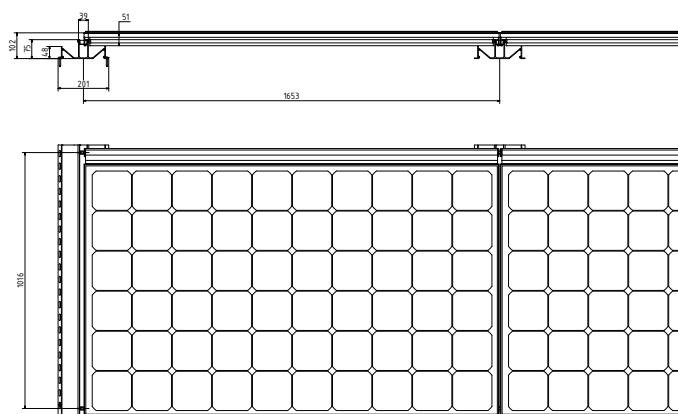
Operating conditions

| | |
|--|---|
| 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/m ² |
| Hail resistance | Ø 30 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



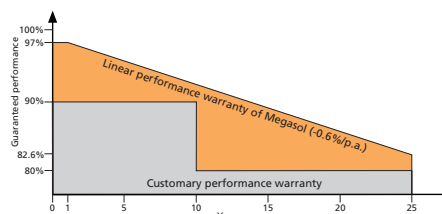
Note: The instructions in the installation manual must be strictly complied with. Further information about approved utilization of products can be found in the installation manual or can be requested from the technical service.

General data

| | |
|----------------------------|---|
| Laminate structure | Glass-foil |
| Cell type | Monocrystalline |
| Cell size | 156x156 mm |
| Number of cells (matrix) | 60 (6x 10) |
| Colour between cells | Black |
| 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, IP 67 |
| Cable cross section | 4 mm ² |
| Connectors | MC4 compatible, IP 67 |
| Dimensions (LxWxH) ±3.0 mm | 1041 x 1648 x 51 mm |
| Modular dimensions (LxW) | 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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