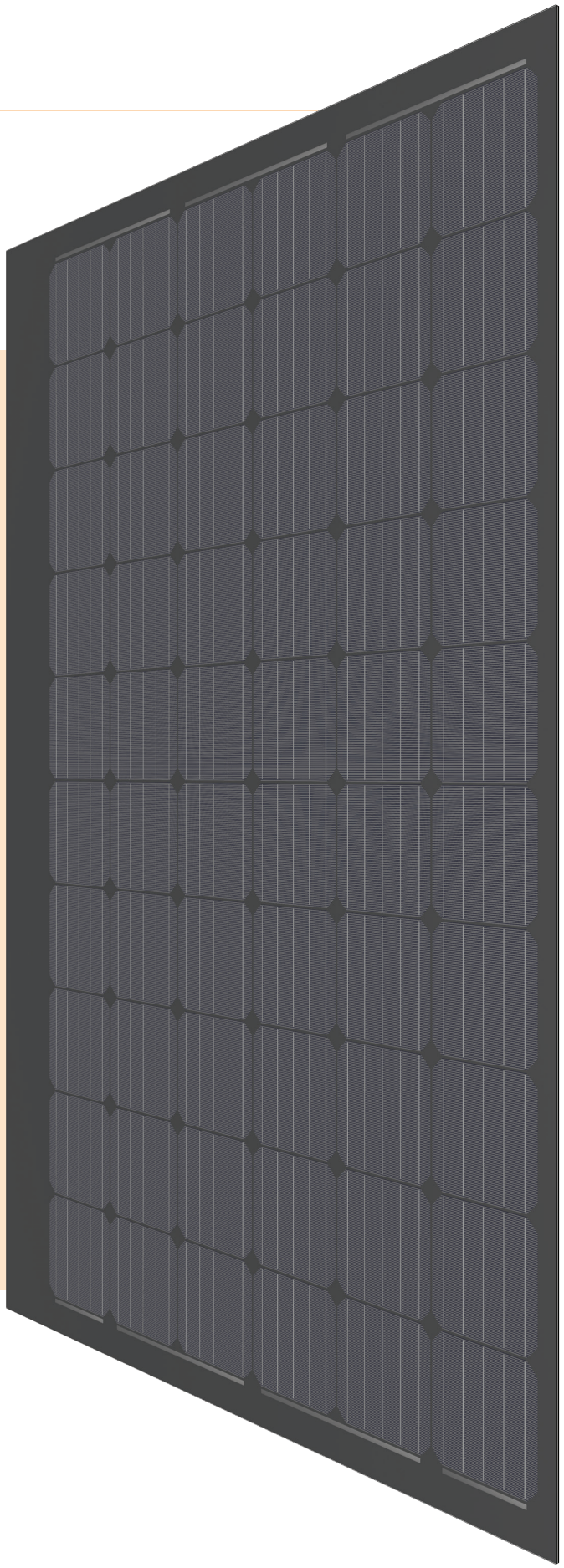
3337.0150 Swiss Premium

M285-60-b GG LEVEL

Glass-glass / monocrystalline / 285 Wp / Full Black /
LEVEL roof-integrated system



Made in Deitingen (Switzerland)

Meets highest aesthetic requirements

Withstands highest static loads

Snow and soiling cannot stick

50+

Lifespan of over 50 years due to glass-glass technology

Full traceability of all raw materials

No tariff restrictions (for exports to USA & EU)

The LEVEL roof-integrated system consists of glass-glass solar modules that are overlapped – just like roofing shingles. Even complex surfaces can be covered, which makes it the perfect solution for entire and aesthetic roof integrations.

megasol
innovation in power

IEC CE VKF AEAI PV CYCLE SENS eRecycling Recyclable Packaging

Swiss Premium M285-60-b GG LEVEL

Art. 3337.0150

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 (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/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 (Isc)	7.26 A

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

Thermal properties

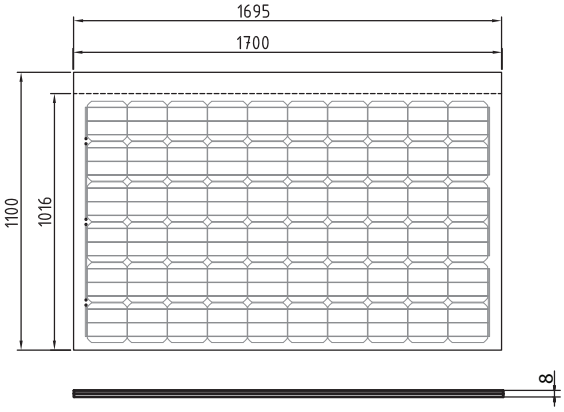
Nominal operating cell temperature (NOCT)	45 ±2 °C
Temperature coefficient Uoc	-0.26 %/°C
Temperature coefficient Isc	+0.031 %/°C
Temperature coefficient Pmpp	-0.37 %/°C

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 *	13'000 N/m²
Hail resistance	ø40 mm at 23 m/s Hail protection class 4
Application class (acc. to IEC/EN 61730)	A
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.

Technical drawing

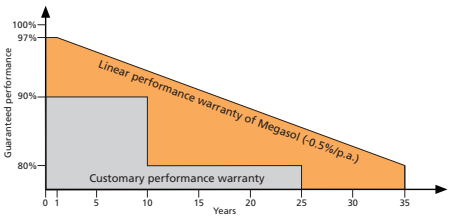


General data

Laminate structure	Glass-glass
Cell type	Monocrystalline
Cell size	156 x 156 mm
Number of cells (matrix)	60 (6x 10)
Colour between cells	Black
Frame	Frameless LEVEL roof-integrated system
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 mm²
Connectors	MC4 compatible, IP67
Dimensions (L x W x H) ±3.0 mm	1100 x 1695 x 8 mm
Modular dimensions (L x W)	1016 x 1700 mm
Weight	32.6 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. 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.