

0322.1588 High performance module

M340-60-b GG LEVEL

Glass-glass / Mono HiR full-square / 340Wp /
Full Black / LEVEL roof-integrated system



n-type HiR technology



Meets highest aesthetic requirements



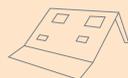
Withstands highest static loads



Lifespan of over 50 years due to glass-glass technology



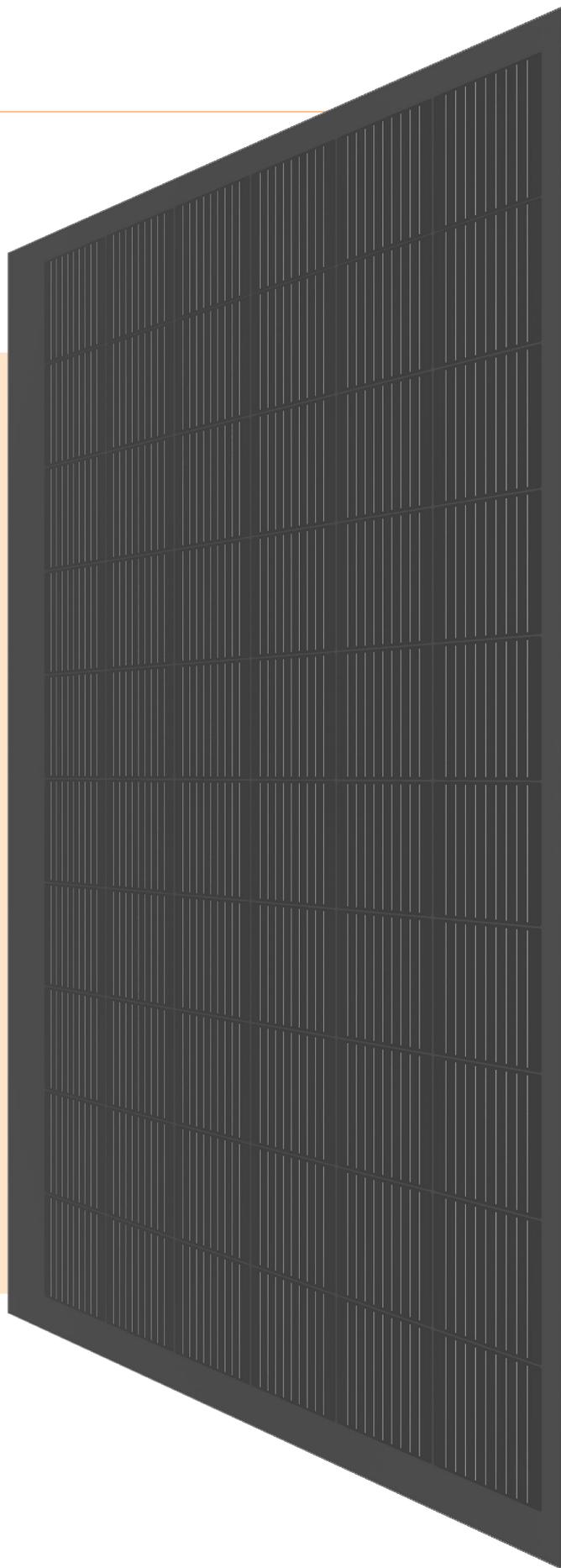
Full traceability of all raw materials



Designed for challenging roof geometries



Swiss development and warranty



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.

Electrical data STC

Nominal power (Pmpp)	340 Wp
Nominal voltage (Umpp)	35.7 V
Nominal current (Impp)	9.53 A
Open circuit voltage (Uoc)	42.4 V
Short circuit current (Isc)	9.99 A
Cell efficiency	24.2 %
Module efficiency	19.7 %
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)	254 Wp
Nominal voltage (Umpp)	33.3 V
Nominal current (Impp)	7.63 A
Open circuit voltage (Uoc)	40.4 V
Short circuit current (Isc)	8.00 A

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

Thermal properties

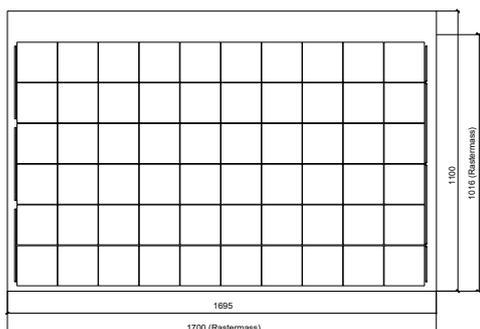
Nominal operating cell temperature (NOCT)	42 ± 2 °C
Temperature coefficient Uoc	-0.260 %/°C
Temperature coefficient Isc	+0.046 %/°C
Temperature coefficient Pmpp	-0.320 %/°C

Operating conditions

Temperature range	-40 ... +85 °C
Max. system voltage	1500 V
Max. string fuse	20 A
Max. surface load *	Up to 13'000 N/m ²
Hail resistance	Ø 50 mm (30.8m/s) Hail protection class 5
Application class (acc. to IEC/EN61730)	A
Fire protection class (acc. to EN 13501-1)	B - s1, d0
Protection class	II
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 maximum values in the installed state depend on the type of installation, installation situation, location and type of load. Specific details can be found in the respective planning information.

Technical drawing

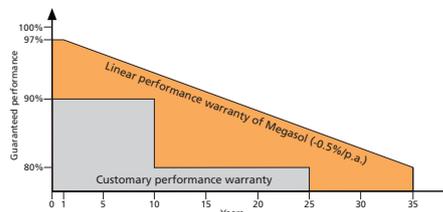


General data

Laminate structure	Glass-glass
Cell type	Megasol Mono HiR 9BB Deep black
Cell size	158.75 mm (G1 full-square)
Number of cells (matrix)	60 (6x 10)
Colour	Full Black Black cell spacing, black cross-contacts
Frame	Frameless LEVEL roof-integrated system
Front side	3.2 mm solar glass AR High-transmission, tempered/toughened, nano-finished/antireflective surface
Encapsulation material	Special EVA (UV+/IR+) with lowest yellowness index
Back side	3.2 mm solar glass Tempered/toughened
Junction box	Split Box, IP68 (right)
Cable cross section	4 mm ²
Connectors	Original Stäubli MC4-Evo 2
Dimensions (LxWxH) ±3.0 mm	1100x 1695x8 mm
Modular dimensions (LxW)	1016x 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	15 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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