

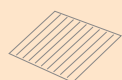
0322.1487 Swiss Premium

M340-60-t BF GG3

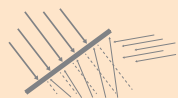
Bifacial glass-glass module / translucent / 340 Wp /
Mono HiR full-square / frameless



Made in Deitingen (Switzerland)



n-type HiR technology



Additional yields through enhanced bifaciality factor



High performance stability and maximum efficiency



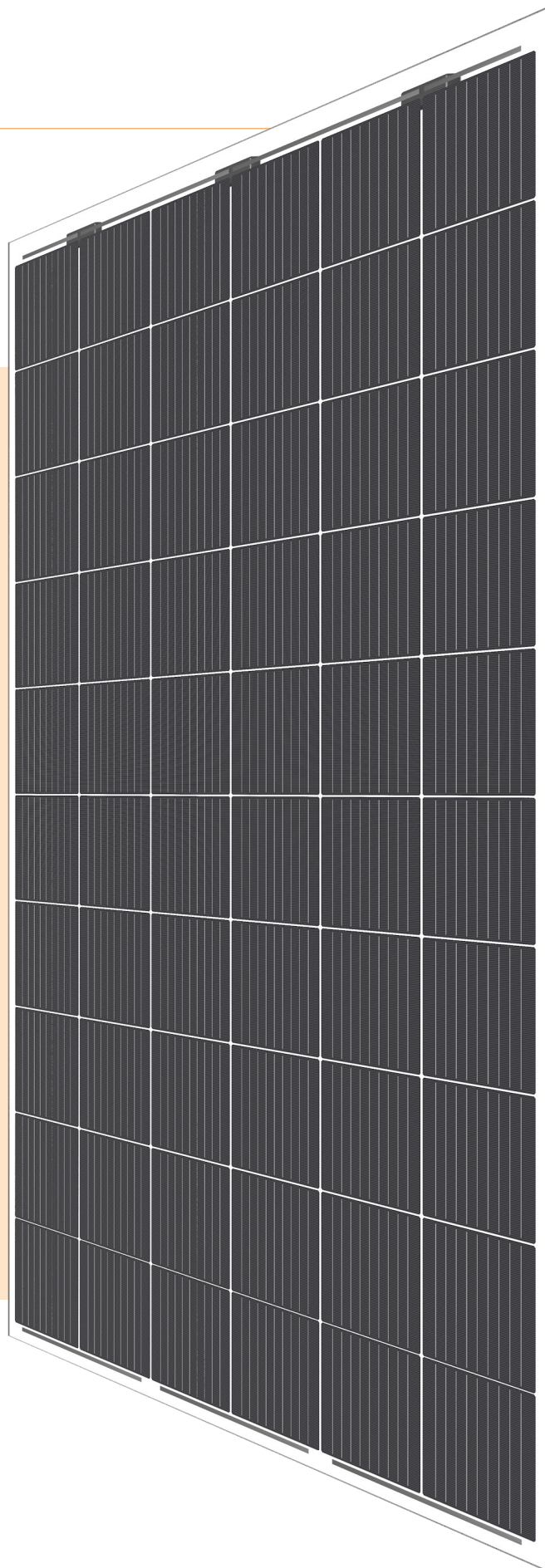
Meets highest aesthetic requirements



Very high durability due to glass-glass technology



Full traceability of all raw materials



Bifacial gain¹

Low reflecting surface	<i>e.g. grass, brick</i>	5 - 15 %
Well reflecting surface	<i>e.g. sand, bright gravel or paint</i>	15 - 25 %
Highly reflecting surface	<i>e.g. ice, snow</i>	25 - 35 %

megaso

innovation in power



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	24.20 %
Bifaciality factor	≥ 90 %
Module efficiency	20.41 %
Power sorting	-0/+5 %

With bifacial gain¹

5 %	357 Wp
10 %	374 Wp
15 %	391 Wp
20 %	408 Wp
30 %	442 Wp

¹ Depending on installation situation, albedo of the substrate and external factors.

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)

Thermal properties

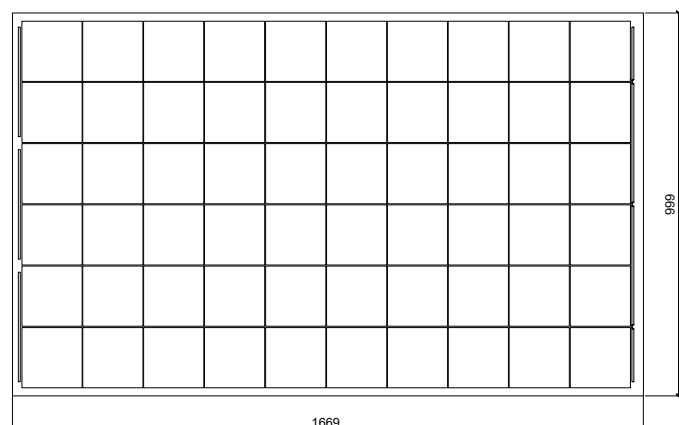
Nominal operating cell temperature (NOCT)	42 ± 2 °C
Temperature coefficient Uoc	-0.260 %/°C
Temperature coefficient Isc	+0.046 %/°C
Temperature coefficient Pmpp	-0.320 %/°C

Operating conditions

Temperature range	-40 ... +85 °C
Max. system voltage	1000 V 1500V optional
Max. string fuse	20 A
Max. snow loads *	Up to 13'000 N/m ²
Hail resistance	Ø30 mm at 23 m/s Hail protection class 3
Application class (acc. to IEC/EN61730)	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
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 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.

Technical drawing



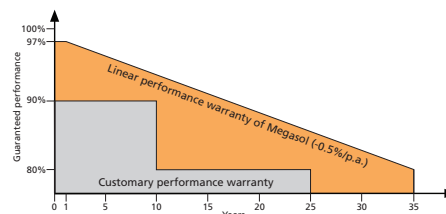
Note: The instructions in the installation manual must be strictly complied with. Further information about approved utilization of products can be found in the installation manual or can be requested from the technical service.

General data

Laminate structure	Glass-glass
Cell technology	Megasol Mono HiR Bifacial
Cell format	G1 Full-square 158.75 mm
Number of cells (matrix)	60 (6x 10)
Colour between cells	Translucent
Frame	Frameless
Front side	3.2 mm solarglass 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, IP 67
Cable cross section	4 mm ²
Connectors	Original Stäubli MC4
Dimensions (LxWxH) ±3.0 mm	1669x999x8 mm
Modular dimensions (LxW)	Depending on the installation situation
Weight	29.5 kg

Quality and warranty

Quality characteristics	PID-free (no potential induced degradation) Yield-optimized low-light performance Full traceability of all raw materials HiR cell technology with enhanced bifaciality factor: additional yields when mounted on flat roof, railing, carport, etc. (depending on mounting distance and albedo of the substrate)
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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