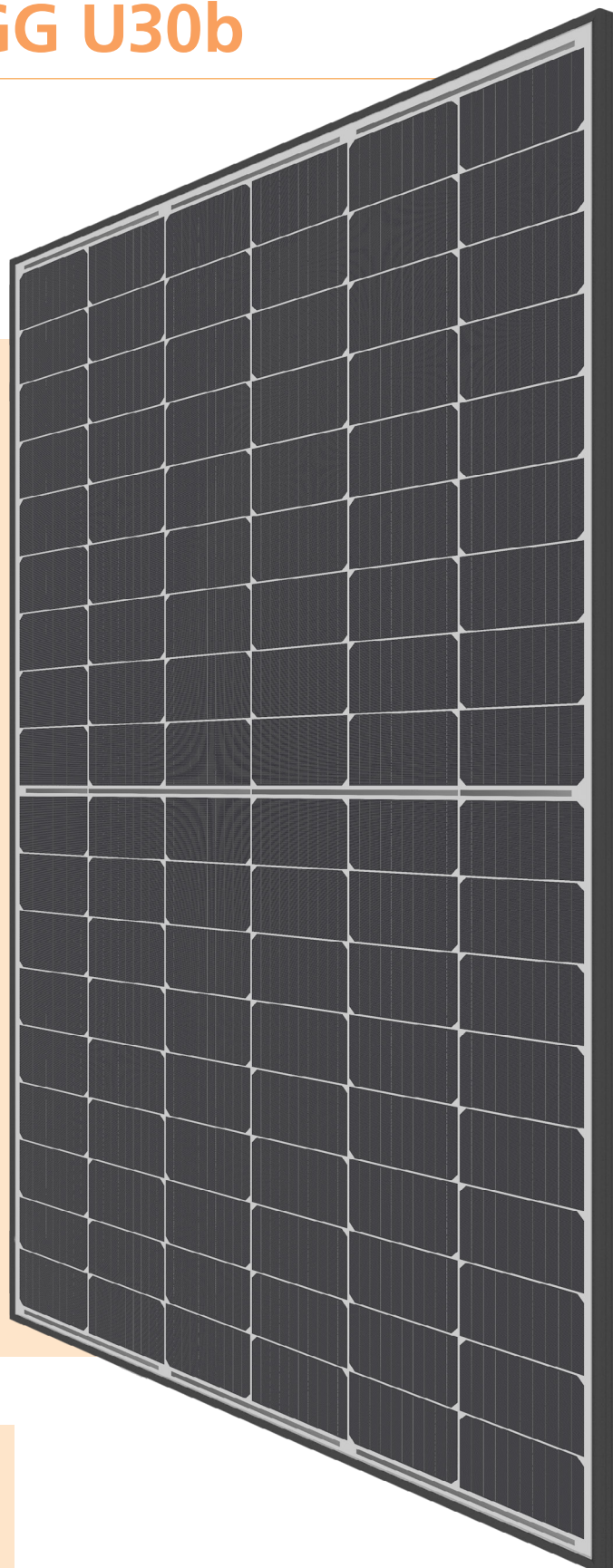


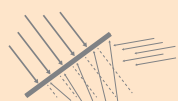
0322.1581 High performance module

# M430-HC108-w BF GG U30b

Bifacial glass-glass module / white / 430 Wp /  
Mono HiR half-cut / black 30 mm U-frame



n-type HiR half-cut 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



Swiss development and warranty

## Bifacial gain<sup>1</sup>

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 %

## Electrical data STC

Nominal power (Pmpp)	430 Wp
Nominal voltage (Umpp)	31.8 V
Nominal current (Impp)	13.53 A
Open circuit voltage (Uoc)	38.0 V
Short circuit current (Isc)	14.33 A
Cell efficiency	24.20 %
Bifaciality factor	≥ 90 %
Module efficiency	21.97 %
Power sorting	-0/+5 %

## With bifacial gain<sup>1</sup>

5 %	451 Wp
10 %	473 Wp
15 %	494 Wp
20 %	516 Wp
30 %	559 Wp

<sup>1</sup>Depending on installation situation, albedo of the substrate and external factors.

STC (Standard Test Conditions): irradiance 1000 W/m<sup>2</sup>, cell temperature 25°C, AM 1.5  
Measuring tolerances ±3 % (Pmpp); ±10 % (Umpp, Impp, Uoc, Isc)

## Electrical data at partial load

800 W/m<sup>2</sup>

Nominal power (Pmpp)	348 Wp
Nominal voltage (Umpp)	31.8 V
Nominal current (Impp)	10.96 A
Open circuit voltage (Uoc)	37.9 V
Short circuit current (Isc)	11.61 A

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

## Thermal properties

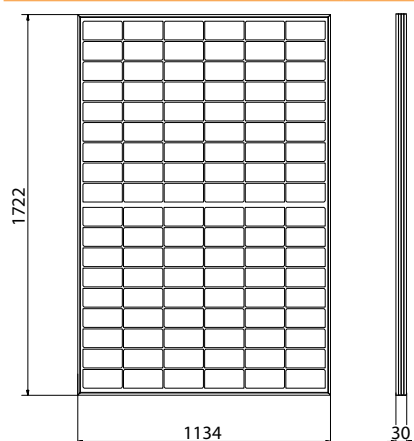
Nominal operating cell temperature (NOCT)	42 ± 2 °C
Temperature coefficient Uoc	-0.260 %/°C
Temperature coefficient Isc	+0.046 %/°C
Temperature coefficient Pmpp	-0.320 %/°C

## Operating conditions

Temperature range	-40 ... +85 °C
Max. system voltage	1500 V
Max. string fuse	25 A
Max. surface load *	Up to 5'400 N/m <sup>2</sup>
Hail resistance	Ø30 mm (23.9 m/s) Hail protection class 3
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



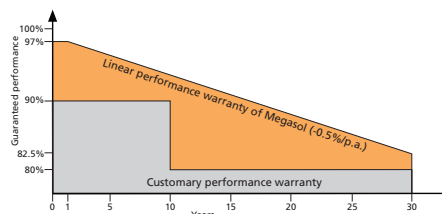
**Note:** The instructions in the installation manual must be strictly complied with. Further information about approved utilization of products can be found in the installation manual or can be requested from the technical service.

## General data

Laminate structure	Glass-glass
Cell technology	Megasol Mono HiR Bifacial
Cell format	M10 Half-cut 182x91 mm
Number of cells (matrix)	108 (6x 18)
Colour between cells	White
Frame	U-frame 30 mm Aluminium, anodized black
Front side	2.0 mm TVG High-transmission, nano-finished/antireflective surface
Encapsulation material	Special EVA (UV+/IR+) with lowest water vapour permeability
Back side	2.0 mm TVG
Junction box	Split Box, IP68
Cable cross section	4 mm <sup>2</sup>
Connectors	Original Stäubli MC4-Evo 2
Dimensions (LxWxH) ±3.0 mm	1722x 1134x30 mm
Modular dimensions (LxW)	Depending on the installation situation
Weight	25 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	30 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 87.5% of the minimum output after 20 years. At least 82.5% of the minimum output after 30 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](http://www.megasol.ch/warranty).



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