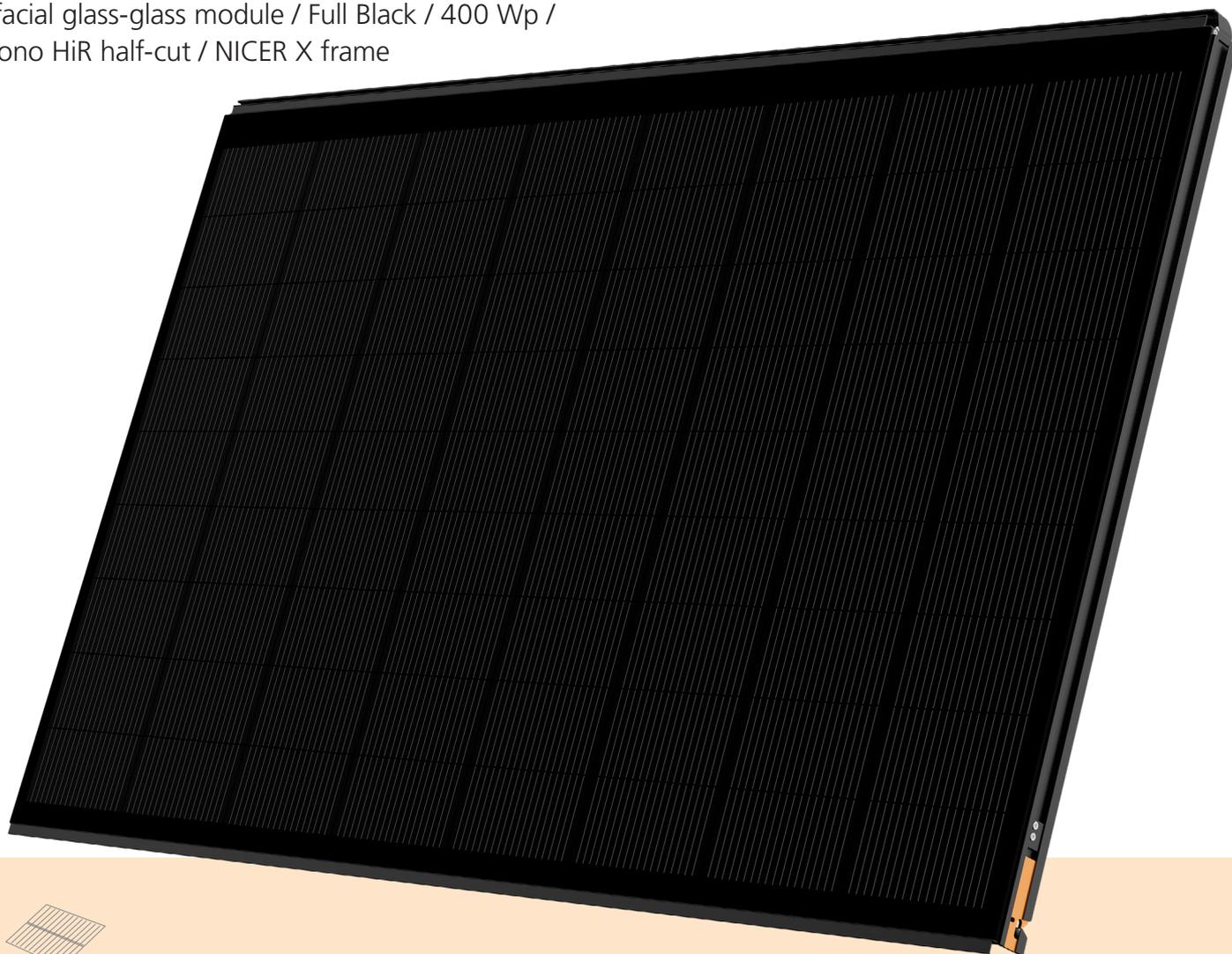


0322.1613 High performance module

M400-HC72-b BF GG NICER X

Bifacial glass-glass module / Full Black / 400 Wp /
Mono HiR half-cut / NICER X frame



n-type HiR half-cut technology



Additional yields through enhanced bifaciality factor



Meets highest aesthetic requirements



High performance stability and maximum efficiency



Very high durability due to glass-glass technology



Full traceability of all raw materials



Swiss development and warranty



innovation in power



Electrical data STC

Nominal power (Pmpp)	400 Wp
Nominal voltage (Umpp)	46.1 V
Nominal current (Impp)	8.68 A
Open circuit voltage (Uoc)	53.0 V
Short circuit current (Isc)	9.20 A
Bifaciality factor	≥ 90 %
Module efficiency	21.7 %
Power sorting	-0/+5 %

With bifacial gain¹

5 %	420 Wp
10 %	440 Wp
15 %	460 Wp
20 %	480 Wp
30 %	520 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)	317 Wp
Nominal voltage (Umpp)	45.7 V
Nominal current (Impp)	6.95 A
Open circuit voltage (Uoc)	52.6 V
Short circuit current (Isc)	7.37 A

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

Thermal properties

Nominal operating cell temperature (NOCT)	42 ± 2 °C
Temperature coefficient Uoc	-0.250 %/°C
Temperature coefficient Isc	+0.055 %/°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 6'000 N/m ²
Hail resistance	Ø 30 mm (23.9 m/s) Hail protection class 3
Application class (acc. to IEC/EN 61730)	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

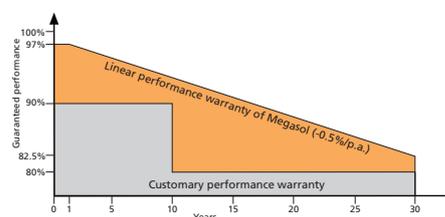
* Max. possible forces acting on the module. The maximum values in the installed state depend on the type of installation, installation situation, location and type of load. Specific details can be found in the respective planning information.

General data

Laminate structure	Glass-glass
Cell technology	Megasol Mono HiR Bifacial
Cell format	G12 Half-cut 210x105 mm
Number of cells (matrix)	72 (8x9)
Design	Full Black Black cell spacing, black cross connectors
Frame	NICER X Aluminium, anodized black (RAL 9005)
Front side	2.0 mm TVG High-transmission, antireflective surface
Encapsulation material	Special EVA (UV+/IR+) with lowest water vapour permeability
Back side	2.0 mm TVG
Junction box	Split Box, IP 68
Cable cross section	4 mm ²
Connectors	Original Stäubli MC4-Evo 2
Dimensions (LxWxH) ±3.0 mm	1082x1734x50 mm
Grid dimensions (LxW)	1060x1740 mm
Weight	24 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.



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