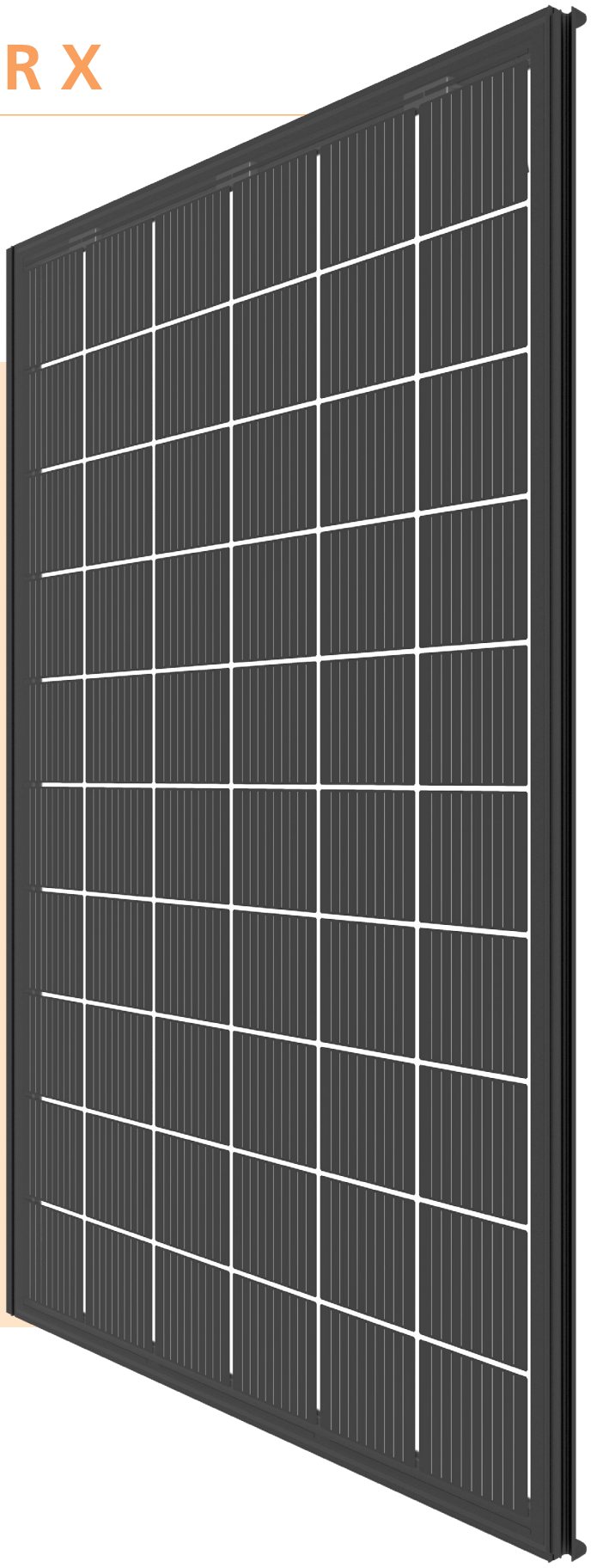
0322.1550 High performance module

M350-60-t BF GG NICER X

Bifacial glass-glass module / translucent / 350 Wp /
Mono HiR full-square / NICER X frame



n-type HiR technology

Additional yields through enhanced bifaciality factor

Optimized cell matrix for increased translucency

High performance stability and maximum efficiency

50+

Very high durability due to glass-glass technology

Full traceability of all raw materials

Swiss development and warranty

Bifacial gain[1]		
Low reflecting surface	*e.g. grass, brick*	**5 - 15 %**
Well reflecting surface	*e.g. sand, bright gravel or paint*	**15 - 25 %**
Highly reflecting surface	*e.g. ice, snow*	**25 - 35 %**

megasol
innovation in power

High performance module M350-60-t BF GG NICER X

Art. 0322.1550

Electrical data STC

Nominal power (Pmpp)	350 Wp
Nominal voltage (Umpp)	35.7 V
Nominal current (Impp)	9.81 A
Open circuit voltage (Uoc)	42.4 V
Short circuit current (Isc)	10.28 A
Cell efficiency	24.2 %
Bifaciality factor	≥ 90 %
Module efficiency	19.0 %
Power sorting	-0/+5 %

With bifacial gain [1]

5 %	368 Wp
10 %	385 Wp
15 %	403 Wp
20 %	420 Wp
30 %	455 Wp

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

Total translucency [2]	≈10%

[2] Based on the full light spectrum, in a natural installation situation.

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)	261 Wp
Nominal voltage (Umpp)	33.3 V
Nominal current (Impp)	7.85 A
Open circuit voltage (Uoc)	40.4 V
Short circuit current (Isc)	8.23 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 6'000 N/m²
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

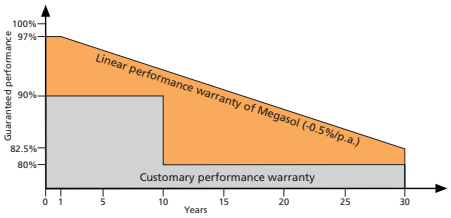
* Max. possible forces acting on the module. The maximum values in the installed state depend on the type of installation, installation situation, location and type of load. Specific details can be found in the respective planning information.

General data

Laminate structure	Glass-glass
Cell technology	Megasol Mono HiR Bifacial
Cell format	G1 Full-square 158.75 mm
Number of cells (matrix)	60 (6x 10)
Colour between cells	Translucent
Frame	NICER X Aluminium, anodized black (RAL 9005)
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 mm²
Connectors	Original Stäubli MC4-Evo 2
Dimensions (L x W x H) ±3.0 mm	1082 x 1734 x 50 mm
Grid dimensions (L x W)	1060 x 1740 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.

E-mail: info@megasol.ch
Hotline: +41 62 919 90 90
www.megasol.ch

Megasol partner

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.