

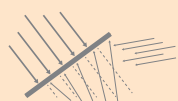
0322.1506 High performance module

M350-60-t BF GG NICER 3

Bifacial glass-glass module / translucent / 350 Wp /
Mono HiR full-square / NICER 3 frame



n-type HiR technology



Additional yields through enhanced bifaciality factor



High performance stability and maximum efficiency



Meets highest aesthetic requirements



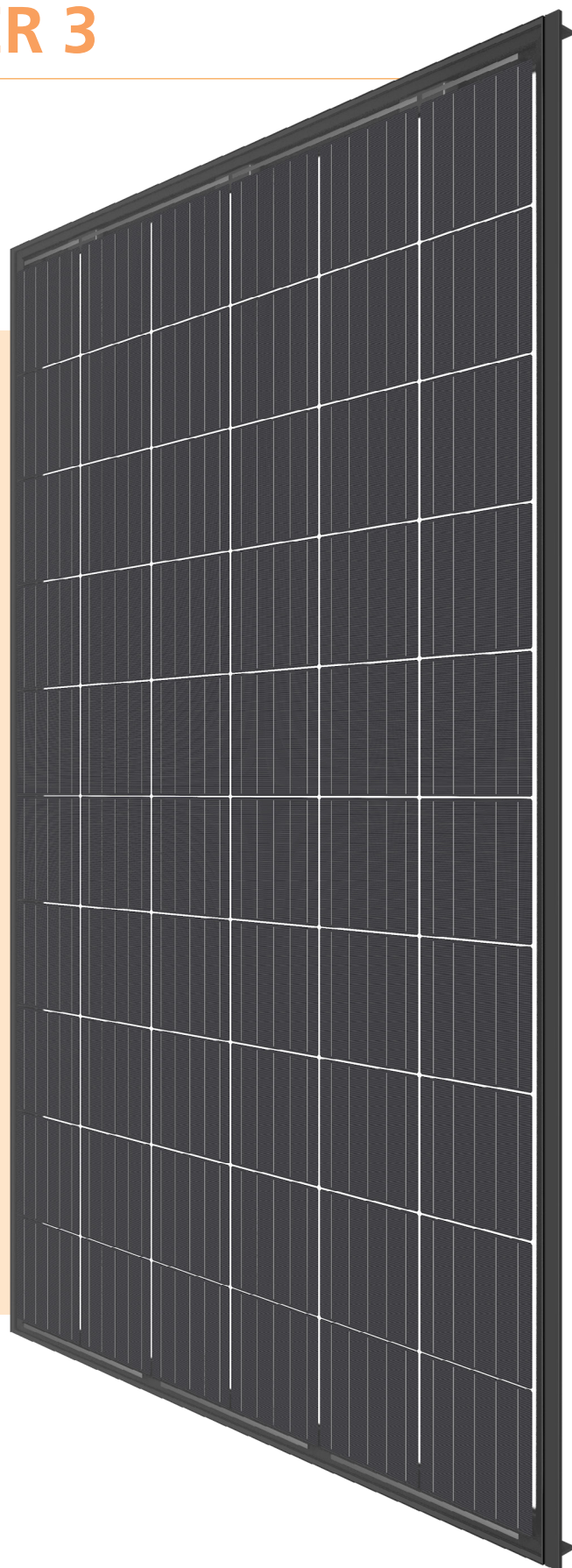
Very high durability due to glass-glass technology



Full traceability of all raw materials



Swiss development and warranty



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 %

Electrical data STC

Nominal power (Pmpp)	350 Wp	5%	368 Wp
Nominal voltage (Umpp)	35.7 V	10%	385 Wp
Nominal current (Impp)	9.81 A	15%	403 Wp
Open circuit voltage (Uoc)	42.4 V	20%	420 Wp
Short circuit current (Isc)	10.28 A	30%	455 Wp
Cell efficiency	24.20 %	¹ Depending on installation situation, albedo of the substrate and external factors.	
Bifaciality factor	≥ 90 %		
Module efficiency	20.57 %	Total translucency ²	≈ 3 %
Power sorting	-0/+5 %	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)

Thermal properties

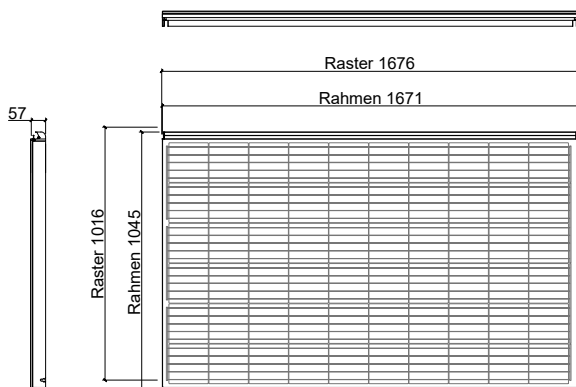
Nominal operating cell temperature (NOCT)	42 ± 2 °C
Temperature coefficient Uoc	-0.260 %/°C
Temperature coefficient Isc	+0.046 %/°C
Temperature coefficient Pmpp	-0.320 %/°C

Operating conditions

Temperature range	-40 ... +85 °C
Max. system voltage	1000 V
Max. string fuse	20 A
Max. snow loads *	Up to 8'000 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

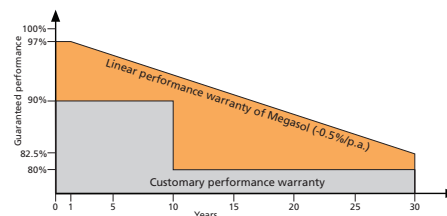


General data

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 3 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, IP67
Cable cross section	4 mm ²
Connectors	Original Stäubli MC4
Dimensions (LxWxH) ±3.0 mm	1045x 1671 x 57 mm
Modular dimensions (LxW)	1016 x 1676 mm
Weight	27 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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