# 0322.1519 High performance module M345-HC120-w U40b

Glass-film / monocrystalline half-cut / 345 Wp / white / 40 mm U-frame black

Half-cut technology



High performance stability and maximum efficiency

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Nano-finished solar glass with antireflective surface

Optimized low-light performance

Si Based on 100 % silicon

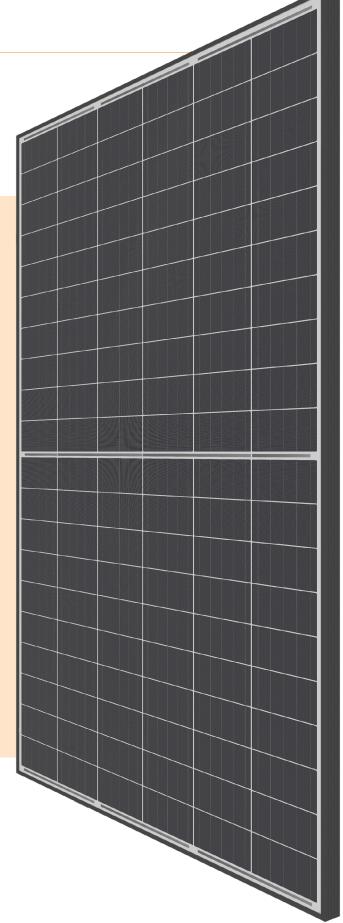


Full traceability of all raw materials



Swiss development and warranty

It is owed to state-of-the-art spectral optimization that Megasol modules perform up to 15 % better than customary modules under cloudy conditions and during dusk or dawn. The monocrystalline Megasol module with 40 mm frame is Switzerland's best-selling solar module.





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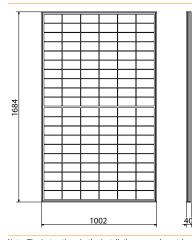
## Art. 0322.1519

#### Electrical data STC

Electrical data STC	
Nominal power (Pmpp)	345 Wp
Nominal voltage (Umpp)	34.3 V
Nominal current (Impp)	10.06 A
Open circuit voltage (Uoc)	41.8 V
Short circuit current (lsc)	10.92 A
Cell efficiency	22.80 %
Module efficiency	20.45 %
Power sorting	-0/+5 %
STC (Standard Test Conditions): irradiance 1000 W/m Measuring tolerances ±3 % (Pmpp); ±10 % (Umpp, Electrical data at partial load	
Nominal power (Pmpp)	257 Wp
Nominal voltage (Umpp)	32.4 V
Nominal current (Impp)	7.94 A
Open circuit voltage (Uoc)	38.8 V
Short circuit current (lsc)	8.94 A
Measuring tolerances ±5 % (Pmpp); ±10 % (Umpp, Thermal properties	Impp)
Nominal operating cell temperature (NOCT)	45 ±2 °C
Temperature coefficient Uoc	-0.26 %/°C
Temperature coefficient lsc	+0.031 %/°C
Temperature coefficient Pmpp	-0.37 %/°C
Operating conditions	·
Temperature range	-40 +85 °C
Max. system voltage	1000 V optionally available for 1500V
Max. reverse current	20 A
Max. string fuse	16 A
Max. wind and snow loads *	Up to 2'400/5'400 N/m <sup>2</sup>
Hail resistance	ø 30 mm at 23 m/s Hail protection class 3
Application class (acc. to IEC/EN61730)	А
Fire protection	Top layer is made of heat-resistant glass. The component is considered to be non- combustible material as defined by the Cantonal Fire Insurances.
Protection class	11
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	e maximum values in mounted condition depend o

\* 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

General data	
Laminate structure	Glass-foil
Cell type	Mono PERC half-cut, 5 busbars
Cell size	G1 (158.75 mm)
Number of cells (matrix)	120 (6x 20)
Colour between cells	White
Frame	U-frame 40 mm Aluminium, anodized black
Front side	3.2 mm solar glass High-transmission, tempered/toughened, nano-finished/antireflective surface
Encapsulation material	EVA with lowest yellowness index
Back side	Three-layer build-up (Polyester / PET / Tedlar) with lowest water vapour permeability
Junction box	3 bypass diodes, IP67
Cable cross section	4 mm²
Connectors	MC4 compatible, IP67
Dimensions (LxWxH) $\pm 3.0$ mm	1684 x 1002 x 40 mm
Modular dimensions (LxW)	Depending on the installation situation
Weight	20 kg
Quality and warranty	
Quality characteristics	PID-free (no potential induced degradation) Yield-optimized low-light performance Full traceability of all raw materials
Product warranty	10 years
Linear performance warranty	25 years



Relative efficiency level in relation to the minimal output (%). At least 97% of the minimum output during the first year. Afterwards, max. 0.6% degradation per annum. At least 91.6% of the minimum output after 10 years. At least 82.6% of the minimum output after 25 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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Megasol partner	

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