

**MATCH Slate M76-HC24 fjord totallyblack**  
**MATCH Slate M44-HC14 fjord totallyblack**  
**MATCH Slate M19-HC6 fjord totallyblack**

Art. 3337.0947

Art. 3337.0943

Art. 3337.0944

Electrical data STC	M76-HC24	M44-HC14	M19-HC6
Nominal power (Pmpp)	76 Wp	44 Wp	19 Wp
Nominal voltage (Umpv)	14.3 V	8.3 V	3.6 V
Nominal current (Impp)	5.39 A	5.39 A	5.39 A
Open circuit voltage (Uoc)	16.7 V	9.8 V	4.2 V
Short circuit current (Isc)	5.70 A	5.70 A	5.70 A
Cell efficiency	24.0 %		
Power sorting	-0/+5 %		

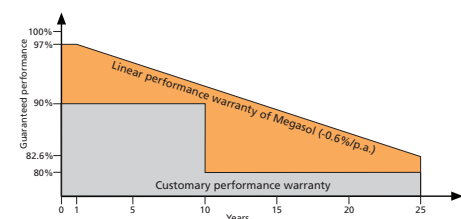
STC (Standard Test Conditions): irradiance 1000 W/m<sup>2</sup>, cell temperature 25°C, AM 1.5  
 Measuring tolerances ±3 % (Pmpp); ±10 % (Umpv, Impp, Uoc, Isc)

Thermal properties	
Nominal operating cell temperature (NOCT)	42 ± 2 °C
Temperature coefficient Uoc	-0.268 %/°C
Temperature coefficient Isc	+0.042 %/°C
Temperature coefficient Pmpp	-0.300 %/°C

Operating conditions	
Temperature range	-40 ... +85 °C
Max. system voltage	1000 V
Max. string fuse	15 A
Max. snow load *	Up to 2'400 N/m <sup>2</sup>
Hail resistance	HW 5 (50 mm at 30.8 m/s)
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

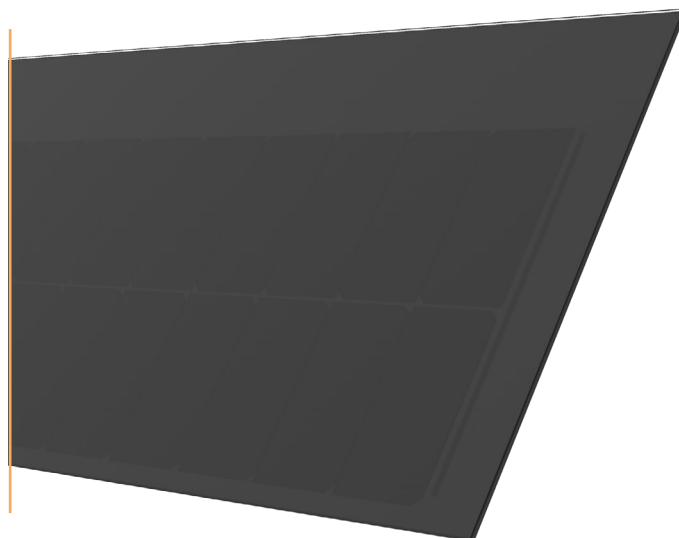
\* Max. possible forces acting on the module. The maximum values in mounted condition depend on the substructure as well as the installation situation. If the requirements are higher than IEC/EN 61215, a project-specific dimensioning of the mounting system is necessary.

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](http://www.megasol.ch/warranty).

**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	M76-HC24	M44-HC14	M19-HC6
Laminate structure	Glass-glass		
Cell technology	Megasol Mono HiR RearCon		
Cell format	M6 Half-cut 166 x 83 mm		
Number of cells (matrix)	24 (2x 12)	14 (2x 7)	6 (2x 3)
Design	Totally Black Black cell spacing, black cross connectors, hidden busbars (RearCon)		
Frame	Frameless MATCH Slate roof-integrated system		
Front glass	4 mm TVG (Megasol Fjord) High-transmission, extrawhite		
Encapsulation material	Special EVA (UV+ / IR+) with lowest yellowness index		
Back glass	4 mm TVG		
Connectors	Original Stäubli MC4		
Product dimensions (WxH) ±4.0 mm	1081x465 mm	719x465 mm	357x465 mm
Grid dimensions (WxH)	1086x380 mm	724x380 mm	362x380 mm
Weight	10.1 kg	6.7 kg	3.4 kg



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Megasol partner

Subject to errors and technical modifications. Data sheet in accordance with DIN EN 50380. © Megasol Energy Ltd | Version: 09/2023