## 0322.1575 High performance module M400-HC120-w BF GG U30b



Bifacial glass-glass module / White / 400 Wp / Mono HiR half-cut / Black 30 mm U-frame

n-type HiR half-cut 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

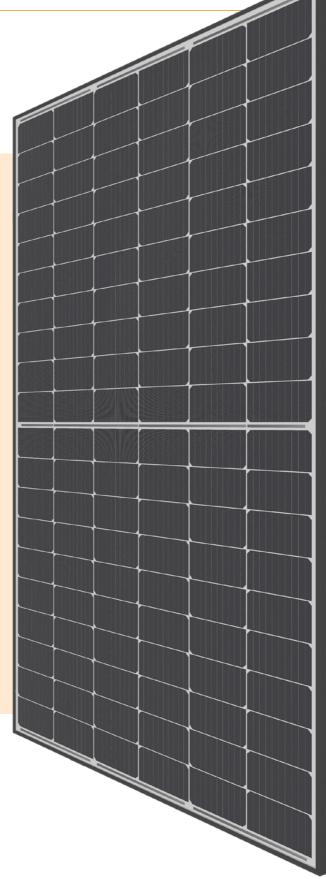


Full traceability of all raw materials



Swiss development and warranty

Bifacial 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 %







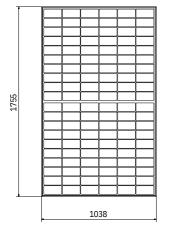
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## Art. 0322.1575

Electrical data STC			With bifacial gain		
Nominal power (Pmpp)	400 W	р	15%	420 Wp	
Nominal voltage (Umpp)	35.3 V		10 %	440 Wp	
Nominal current (Impp)	11.33	A	15 %	460 Wp	
Open circuit voltage (Uoc)	42.2 V		20 %	480 Wp	
Short circuit current (Isc)	12.00	A	30 %	520 Wp	
Cell efficiency	24.8 %		<sup>1</sup> Depending albedo of	<sup>1</sup> Depending on installation situation, albedo of the substrate and external factors.	
Bifaciality factor	≥ 90 %		external fa		
Module efficiency	22.0 %				
Power sorting	- 0 / + 5 %				
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/		12		
Nominal power (Pmpp)		324 Wp			
Nominal voltage (Umpp)		35.0 V			
Nominal current (Impp)		9.27 A			
Open circuit voltage (Uoc)		41.8 V			
Short circuit current (Isc)		9.82 A			
Measuring tolerances ± 5 % (Pmpp); ±10 Thermal properties	) % (Umpp, lr	mpp)			
Nominal operating cell temperat	ure (NOC	)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		25 A			
Max. snow loads *		Up to 6'000 N/m²			
Hail resistance		ø 30 mm at 23 m/s Hail protection class 3			
Application class (acc. to IEC/EN 61730)		А			
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	Ammonium corrosion test		IEC/EN 62716		
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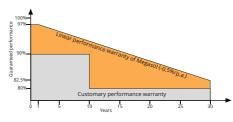
\* Max. possible forces acting on the module. The maximum values in mounted condition depend on the substructure as well as the installation situation. If the requirements are higher than IEC/EN 61215, a project-specific dimensioning of the mounting system is necessary.

## 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.

Glass-glass		
Megasol Mono HiR Bifacial		
M6 Half-cut 166 x 83 mm		
120 (6x 20)		
White		
U-frame 30 mm Aluminium, anodized black		
2.0 mm TVG High-transmission, nano-finished / antireflective surface		
Special EVA (UV+ / IR+) with lowest water vapour permeability		
2.0 mm TVG		
Split Box, IP 67		
4 mm <sup>2</sup>		
Original Stäubli MC4-Evo 2		
1755 x 1038 x 30 mm		
Depending on the installation situation		
23.5 kg		
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)		
15 years		
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 87.6 % 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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