0322.1531 High performance module M390-HC120-w BF GG U30b

Bifacial glass-glass module / White / 390 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

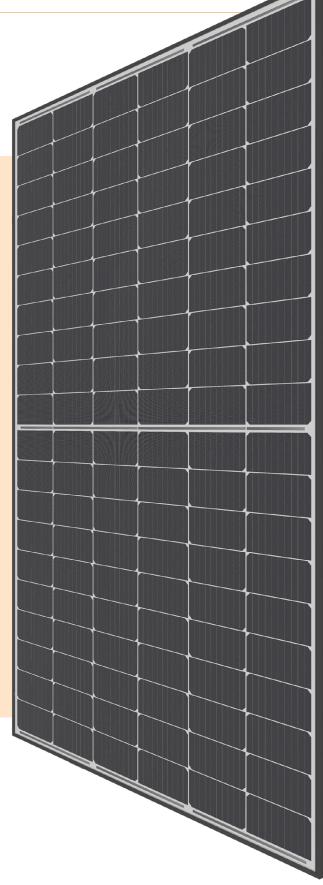


Full traceability of all raw materials



Swiss development and warranty

Bifacial gain		
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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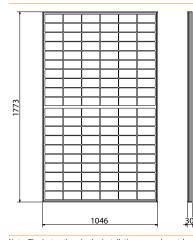
Art. 0322.1531

Electrical data STC

Electrical data STC				
Nominal power (Pmpp)	390 W	р	With bifacial gain ¹	
Nominal voltage (Umpp)	35.2 V		5 %	409 Wp
Nominal current (Impp)	11.09	4	10 %	429 Wp
Open circuit voltage (Uoc)	42.1 V		15 %	448 Wp
Short circuit current (lsc)	11.75	Д	20%	468 Wp
Cell efficiency	24.2 %)	30 %	507 Wp
Bifaciality factor	≥ 90 %		¹ Depending on mounting distance and albedo of the substrate	
Module efficiency	21.1 %			
Power sorting	-0/+5	%		
STC (Standard Test Conditions): irradian Measuring tolerances ±3 % (Pmpp); ±1	ce 1000 W/m 0 % (Umpp,	², cell tempe Impp, %, Uc	rature 25°C, AN oc, Isc)	11.5
Electrical data at partial load	d	800 W/m ²		
Nominal power (Pmpp)		291 Wp	D	
Nominal voltage (Umpp)		32.8 V		
Nominal current (Impp)		8.88 A		
Dpen circuit voltage (Uoc)		40.1 V		
Short circuit current (lsc)	Short circuit current (Isc)		9.40 A	
Measuring tolerances ±5 % (Pmpp); ±1	0 % (Umpp, I	mpp)		
Thermal properties				
Nominal operating cell temperature (NOCT)		42 ±2 °C		
Temperature coefficient Uoc		-0.260 %/°C		
Temperature coefficient lsc		+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/m ²		
Hail resistance		ø30mn	n 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		П		
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

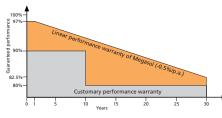


Note: The instructions in the installation manual must be strictly complied with. Further information about approved utilization of products can be found in the installation manual or can be requested from the technical service.

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General data	
Laminate structure	Glass-glass
Cell technology	Megasol Mono HiR Bifacial
Cell format	M6 Half-cut 166x83mm
Number of cells (matrix)	120 (6x 20)
Colour between cells	White
Frame	U-frame 30 mm Aluminium, anodized black
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-Evo 2
Dimensions (LxWxH) ±3.0 mm	1773x1046x30 mm
Modular dimensions (LxW)	Depending on the installation situation
Weight	23.5 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

Quality characteristics	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 82.5% 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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